

ADEQUACY OF OFFICER
FITNESS REPORTS

BY
JOSEPH F. FOLEY

Thesis
F54

U. S. Naval Postgraduate School
Annapolis, Md.

THE ADEQUACY OF OFFICER FITNESS REPORTS

A study toward improving the
present methods of evaluation
of officer performance in the
Navy

A Thesis

Presented in Partial Fulfillment of the Requirements
for the Degree Master of Science

Library
U. S. Naval Postgraduate School
Annapolis, Md.

By

JOSEPH F. FOLEY, B.Sc.

The Ohio State University

1950

Approved by:

Adviser

THEORY OF OPTICS

Thesis

F54
A study of the theory of
the method of evaluation
of officer performance in the
Navy

Thesis

! Research in the field of the evaluation of officer performance in the Navy
for the purpose of the study

Library
U. S. Naval Postgraduate School
Annapolis, Md.

TABLE OF CONTENTS

CHAPTER	PAGE
PART I	
1. THE PROBLEM AND ITS IMPORTANCE	1
NEED FOR A FORMAL METHOD	1
OBJECTIVES OF RATING	2
THE VALUE OF MERIT RATING TO THE NAVY.	4
2. PLAN FOR TREATMENT OF THE PROBLEM	7
PART II	
1. SOME PSYCHOLOGICAL FACTORS BEARING ON THE PROBLEM. OF MERIT RATING	9
NATURE OF RATING.	9
SOME DETERMINANTS OF PERCEPTION.	10
FORMATION OF BELIEFS AND ATTITUDES.	12
RETENTION OF BELIEFS AND ATTITUDES.	12
RESISTANCE TO CHANGE OF BELIEFS AND ATTITUDES	13
OTHER FACTORS INFLUENCING OBJECTIVITY.	14
Effect of Length of Acquaintance.	14
Relative Difficulty of Judging Different Traits.	15
Generosity Error	15
Error of Central Tendency	16
Logical Error	16
Halo	17
Differences in Purpose of Raters.	18
Differences in Standards	19
SUMMARY.	20

THE ... AT

1000

CHAPTER

PART I

- 1. THE ...
- 2. THE ...
- 3. THE ...
- 4. THE ...
- 5. THE ...

PART II

- 1. THE ...
- 2. THE ...
- 3. THE ...
- 4. THE ...
- 5. THE ...
- 6. THE ...
- 7. THE ...
- 8. THE ...
- 9. THE ...
- 10. THE ...
- 11. THE ...
- 12. THE ...
- 13. THE ...
- 14. THE ...
- 15. THE ...
- 16. THE ...
- 17. THE ...
- 18. THE ...
- 19. THE ...
- 20. THE ...

CHAPTER

PAGE

PART II

2. DEVICES AND PROCEDURES IN SERVICE RATING	22
GRAPHIC RATING SCALE	22
Scoring the Graphic Scale.	24
The profile method	24
The direct calculation method.	25
The graphic-computation method	26
The machine method	26
Types of Scores	27
Weighting of Traits.	28
Need for Control of Weighting	30
Advantages of Graphic Scale	31
Disadvantages of Graphic Scale	31
Failure to obtain spread of scores	31
The problem of reliability.	33
The problem of validity.	35
PORCH'S DISTRIBUTION RATING	36
RANK ORDER METHOD	38
PAIRED COMPARISONS.	38
MAN TO MAN SCALE	40
CHECK LIST	41
COMBINATIONS.	43
POOLING AND REVIEW OF RATINGS.	44
Plural ratings.	44
Review of ratings.	46

CHAPTER

PAGE

PART II
(Continued)

NEW APPROACH.	47
NUMBER OF TRAITS	48
Mathematical considerations.	48
In favor of a reduced number of traits	49
The case for a larger number	50
Practical considerations.	52
ADMINISTRATION OF RATING PROGRAM	52
Showing ratings to ratees	52
Who should rate.	53
How often to rate	56
Rating the rater	57
TRAINING OF RATERS.	57
Effect of training measured.	58
Effect of certain rater qualities.	59
Substance of Rater Training Program	60
The purpose of rating.	60
Theory of normal distribution	60
Psychological influences.	61
Meaning of terms	61
Practice ratings	61
SUMMARY OF FACTS IN RATING SERVICE	62
Principles Applicable to Devices	62
Bias and Objectivity	62
Halo	63

CHAPTER

PAGE

PART II
(Continued)

Normal distribution	63
Weighting of traits	64
Display of qualities	64
Combinations.	65
Traits to be excluded.	65
Administrability	66
Principles Applicable to Procedure.	66
Conference with rates.	66
Who should rate.	66
How often to rate	66
Review of ratings	67
Training of raters.	67
Rating raters	67
3. CRITERIA.	68
Importance of Criteria.	68
Inadequacy of Available Criteria	68
Criteria of reliability	68
Typical coefficients of reliability	69
Criteria of validity	70
Typical criteria of validity	72
Rating by peers as criteria	73
Rating by peers instead of superiors	75
Future possibilities	76

CHAPTER

PAGE

PART II
(Continued)

4. SERVICE RATINGS IN THE ARMED FORCES	80
Some Early Navy Forms	80
Subsequent developments.	80
The Present Navy Form	81
Physical makeup	83
Use of form.	83
Some analyses of Navy ratings.	84
Evaluation	87
The Army Rating Form.	89
Physical makeup and use.	91
The forced choice theory	92
Some analyses of Army ratings.	93
Evaluation	94
The Air Force Report.	99
Description and use of booklet	99
The rating sheet	100
Evaluation	101
The Marine Corps Rating Form	104
Analysis.	105
Evaluation	106
SUMMARY.	108

II 2nd
(Surrey, 1890)

1. The first part of the report is a general statement of the purpose and scope of the study. It is followed by a brief review of the literature on the subject.

2. The second part of the report is a description of the methods used in the study. This includes a description of the subjects, the experimental design, and the data collection procedures.

3. The third part of the report is a presentation of the results of the study. This includes a description of the data, a summary of the findings, and a discussion of the implications of the results.

4. The fourth part of the report is a conclusion. This includes a summary of the main findings of the study and a statement of the author's conclusions.

5. The fifth part of the report is a list of references. This includes a list of all the sources used in the study.

6. The sixth part of the report is an appendix. This includes any additional information that is relevant to the study but that does not fit into the main body of the report.

7. The seventh part of the report is a list of figures. This includes a list of all the figures used in the study.

8. The eighth part of the report is a list of tables. This includes a list of all the tables used in the study.

9. The ninth part of the report is a list of abbreviations. This includes a list of all the abbreviations used in the study.

10. The tenth part of the report is a list of symbols. This includes a list of all the symbols used in the study.

CHAPTER

PAGE

PART III

1. CONCLUSIONS.	109
2. RECOMMENDATIONS	112
First Recommendation.	112
Form	113
Second Recommendation	114
Third Recommendation.	114
Fourth Recommendation	114
Subsidiary Recommendations.	115
Information to be Elicited.	116
Significant areas of information.	117
Specificity of Rating Device	118
Information to be Excluded.	120
Length and Complexity	120
Machine Processing	122
REFERENCES	124
BIBLIOGRAPHY	137
APPENDIX A. SAMPLES OF TYPE OF RATING FORMS.	143

III

101	1. General Introduction
111	2. In Conclusion
112	First Recommendation
113	Form
114	Second Recommendation
115	Third Recommendation
116	Fourth Recommendation
117	Appendix
118	Information on the subject
119	Information on the subject
120	Information on the subject
121	Information on the subject
122	Information on the subject
123	Information on the subject
124	Information on the subject
125	Information on the subject
126	Information on the subject
127	Information on the subject
128	Information on the subject
129	Information on the subject
130	Information on the subject
131	Information on the subject
132	Information on the subject
133	Information on the subject
134	Information on the subject
135	Information on the subject
136	Information on the subject
137	Information on the subject
138	Information on the subject
139	Information on the subject
140	Information on the subject
141	Information on the subject
142	Information on the subject
143	Information on the subject
144	Information on the subject
145	Information on the subject
146	Information on the subject
147	Information on the subject
148	Information on the subject
149	Information on the subject
150	Information on the subject
151	Information on the subject
152	Information on the subject
153	Information on the subject
154	Information on the subject
155	Information on the subject
156	Information on the subject
157	Information on the subject
158	Information on the subject
159	Information on the subject
160	Information on the subject
161	Information on the subject
162	Information on the subject
163	Information on the subject
164	Information on the subject
165	Information on the subject
166	Information on the subject
167	Information on the subject
168	Information on the subject
169	Information on the subject
170	Information on the subject
171	Information on the subject
172	Information on the subject
173	Information on the subject
174	Information on the subject
175	Information on the subject
176	Information on the subject
177	Information on the subject
178	Information on the subject
179	Information on the subject
180	Information on the subject
181	Information on the subject
182	Information on the subject
183	Information on the subject
184	Information on the subject
185	Information on the subject
186	Information on the subject
187	Information on the subject
188	Information on the subject
189	Information on the subject
190	Information on the subject
191	Information on the subject
192	Information on the subject
193	Information on the subject
194	Information on the subject
195	Information on the subject
196	Information on the subject
197	Information on the subject
198	Information on the subject
199	Information on the subject
200	Information on the subject

CHAPTER

PAGE

PART III
(Continued)

APPENDIX B. AN EARLY NAVY RATING FORM	147
APPENDIX C. A MORE RECENT NAVY RATING FORM	149
APPENDIX D. PRESENT NAVY RATING FORM	151
APPENDIX E. ARMY RATING FORM	153
APPENDIX F. AIR FORCE RATING WORK BOOKLET (SAMPLE SHEET)	156
APPENDIX G. AIR FORCE RATING SHEET	158
APPENDIX H. MARINE CORPS RATING FORM	160
APPENDIX I. GLOSSARY OF TERMS	162

PART III
(continued)

APPENDIX B. AN EARLY NAVY SATING FORM	147
APPENDIX C. A MORE MODERN NAVY SATING FORM	148
APPENDIX D. PRESENT NAVY SATING FORM	151
APPENDIX E. A NEW NAVY SATING FORM	153
APPENDIX F. AIR FORCE SATING FORM (SAMPLE SHEET)	155
APPENDIX G. AIR FORCE SATING FORM	156
APPENDIX H. MARINE CORPS SATING FORM	158
APPENDIX I. GLOSSARY OF TERMS	161

LIST OF FIGURES

FIGURE	PAGE
1. A DIAGRAM SHOWING HOW A PRESCRIBED DISTRIBUTION APPROXIMATES NORMAL DISTRIBUTION	37
2. FORM TO AID RATER IN PREPARING FOR POST RATING INTERVIEW	54
3. PROCEDURE FOR POST RATING INTERVIEW	55
4. GRAPHIC PRESENTATION OF DISTRIBUTION DATA OBTAINED FROM STUDY OF NAVY OFFICER RATINGS .	56
5. DISTRIBUTION OF OVERALL RAW SCORES ON ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1, ALL GRADES	96
6. DISTRIBUTION OF OVERALL RAW SCORES ON ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1, FIELD GRADE	97
7. DISTRIBUTION OF OVERALL RAW SCORES ON ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1, COMPANY GRADE	98

LIST OF FIGURES

PAGE	FIGURE
1	1. A DIAGRAM SHOWING HOW A BARRAGE BEING DISTRIBUTION
27	2. A BARRAGE BEING DISTRIBUTION
3	3. A BARRAGE BEING DISTRIBUTION
48	4. A BARRAGE BEING DISTRIBUTION
53	5. A BARRAGE BEING DISTRIBUTION
63	6. A BARRAGE BEING DISTRIBUTION
68	7. A BARRAGE BEING DISTRIBUTION
73	8. A BARRAGE BEING DISTRIBUTION
78	9. A BARRAGE BEING DISTRIBUTION
83	10. A BARRAGE BEING DISTRIBUTION
88	11. A BARRAGE BEING DISTRIBUTION
93	12. A BARRAGE BEING DISTRIBUTION
98	13. A BARRAGE BEING DISTRIBUTION
103	14. A BARRAGE BEING DISTRIBUTION
108	15. A BARRAGE BEING DISTRIBUTION
113	16. A BARRAGE BEING DISTRIBUTION
118	17. A BARRAGE BEING DISTRIBUTION
123	18. A BARRAGE BEING DISTRIBUTION
128	19. A BARRAGE BEING DISTRIBUTION
133	20. A BARRAGE BEING DISTRIBUTION
138	21. A BARRAGE BEING DISTRIBUTION
143	22. A BARRAGE BEING DISTRIBUTION
148	23. A BARRAGE BEING DISTRIBUTION
153	24. A BARRAGE BEING DISTRIBUTION
158	25. A BARRAGE BEING DISTRIBUTION
163	26. A BARRAGE BEING DISTRIBUTION
168	27. A BARRAGE BEING DISTRIBUTION
173	28. A BARRAGE BEING DISTRIBUTION
178	29. A BARRAGE BEING DISTRIBUTION
183	30. A BARRAGE BEING DISTRIBUTION
188	31. A BARRAGE BEING DISTRIBUTION
193	32. A BARRAGE BEING DISTRIBUTION
198	33. A BARRAGE BEING DISTRIBUTION
203	34. A BARRAGE BEING DISTRIBUTION
208	35. A BARRAGE BEING DISTRIBUTION
213	36. A BARRAGE BEING DISTRIBUTION
218	37. A BARRAGE BEING DISTRIBUTION
223	38. A BARRAGE BEING DISTRIBUTION
228	39. A BARRAGE BEING DISTRIBUTION
233	40. A BARRAGE BEING DISTRIBUTION
238	41. A BARRAGE BEING DISTRIBUTION
243	42. A BARRAGE BEING DISTRIBUTION
248	43. A BARRAGE BEING DISTRIBUTION
253	44. A BARRAGE BEING DISTRIBUTION
258	45. A BARRAGE BEING DISTRIBUTION
263	46. A BARRAGE BEING DISTRIBUTION
268	47. A BARRAGE BEING DISTRIBUTION
273	48. A BARRAGE BEING DISTRIBUTION
278	49. A BARRAGE BEING DISTRIBUTION
283	50. A BARRAGE BEING DISTRIBUTION
288	51. A BARRAGE BEING DISTRIBUTION
293	52. A BARRAGE BEING DISTRIBUTION
298	53. A BARRAGE BEING DISTRIBUTION
303	54. A BARRAGE BEING DISTRIBUTION
308	55. A BARRAGE BEING DISTRIBUTION
313	56. A BARRAGE BEING DISTRIBUTION
318	57. A BARRAGE BEING DISTRIBUTION
323	58. A BARRAGE BEING DISTRIBUTION
328	59. A BARRAGE BEING DISTRIBUTION
333	60. A BARRAGE BEING DISTRIBUTION
338	61. A BARRAGE BEING DISTRIBUTION
343	62. A BARRAGE BEING DISTRIBUTION
348	63. A BARRAGE BEING DISTRIBUTION
353	64. A BARRAGE BEING DISTRIBUTION
358	65. A BARRAGE BEING DISTRIBUTION
363	66. A BARRAGE BEING DISTRIBUTION
368	67. A BARRAGE BEING DISTRIBUTION
373	68. A BARRAGE BEING DISTRIBUTION
378	69. A BARRAGE BEING DISTRIBUTION
383	70. A BARRAGE BEING DISTRIBUTION
388	71. A BARRAGE BEING DISTRIBUTION
393	72. A BARRAGE BEING DISTRIBUTION
398	73. A BARRAGE BEING DISTRIBUTION
403	74. A BARRAGE BEING DISTRIBUTION
408	75. A BARRAGE BEING DISTRIBUTION
413	76. A BARRAGE BEING DISTRIBUTION
418	77. A BARRAGE BEING DISTRIBUTION
423	78. A BARRAGE BEING DISTRIBUTION
428	79. A BARRAGE BEING DISTRIBUTION
433	80. A BARRAGE BEING DISTRIBUTION
438	81. A BARRAGE BEING DISTRIBUTION
443	82. A BARRAGE BEING DISTRIBUTION
448	83. A BARRAGE BEING DISTRIBUTION
453	84. A BARRAGE BEING DISTRIBUTION
458	85. A BARRAGE BEING DISTRIBUTION
463	86. A BARRAGE BEING DISTRIBUTION
468	87. A BARRAGE BEING DISTRIBUTION
473	88. A BARRAGE BEING DISTRIBUTION
478	89. A BARRAGE BEING DISTRIBUTION
483	90. A BARRAGE BEING DISTRIBUTION
488	91. A BARRAGE BEING DISTRIBUTION
493	92. A BARRAGE BEING DISTRIBUTION
498	93. A BARRAGE BEING DISTRIBUTION
503	94. A BARRAGE BEING DISTRIBUTION
508	95. A BARRAGE BEING DISTRIBUTION
513	96. A BARRAGE BEING DISTRIBUTION
518	97. A BARRAGE BEING DISTRIBUTION
523	98. A BARRAGE BEING DISTRIBUTION
528	99. A BARRAGE BEING DISTRIBUTION
533	100. A BARRAGE BEING DISTRIBUTION

PART I

INTRODUCTION

Chapter 1

THE PROBLEM AND ITS IMPORTANCE

The problem of rating or judging one's subordinates is as old as Organization itself. Many writers have stressed the point that judging the employees under him is an integral part of the job of the supervisor. Hay¹ argued that consciously or not, the supervisor rates his men whenever called upon to choose between them for special assignments, special awards, promotions, or reductions in force. Jucius² considers that the rating of employees is one of the oldest and most universal practices of management and that there never was a time when supervisors and leaders did not judge the relative value of employees. Tiffin³ emphasized that though the term "merit rating" (service rating) is of recent origin, the judging of employees by their supervisors is not.

NEED FOR FORMAL METHOD

If many writers have agreed that service rating cannot be dispensed with, an equal number are in consonance as to the need for a formal method of making and recording these judgements. Marble⁴ proclaimed that the service rating device protects the employee from "managerial capriciousness" in the determination of his service standing.

THE
FEDERAL BUREAU OF
INVESTIGATION

REPORT OF THE DIRECTOR

The Bureau of Investigation is pleased to announce that it has been authorized to conduct a study of the Federal Bureau of Investigation. The study is being conducted by the Bureau of Investigation and the results will be reported to the Department of Justice. The study is being conducted in order to determine the effectiveness of the Bureau of Investigation in its various functions. The study will cover the following areas: (1) the organization of the Bureau of Investigation, (2) the personnel of the Bureau of Investigation, (3) the methods of the Bureau of Investigation, (4) the results of the Bureau of Investigation, and (5) the future of the Bureau of Investigation. The study will be completed by the end of the year and the results will be reported to the Department of Justice.

The Bureau of Investigation is pleased to announce that it has been authorized to conduct a study of the Federal Bureau of Investigation. The study is being conducted by the Bureau of Investigation and the results will be reported to the Department of Justice. The study is being conducted in order to determine the effectiveness of the Bureau of Investigation in its various functions. The study will cover the following areas: (1) the organization of the Bureau of Investigation, (2) the personnel of the Bureau of Investigation, (3) the methods of the Bureau of Investigation, (4) the results of the Bureau of Investigation, and (5) the future of the Bureau of Investigation. The study will be completed by the end of the year and the results will be reported to the Department of Justice.

⁵
White taught that one of the purposes of the formal efficiency rating is "to protect employees against the snap judgements, prejudice, and ill will of some supervisors".

⁶
Tiffin feels that the emergence of the formal rating system has "involved the transfer of ratings from haphazard, random, and frequently irresponsible judgements of supervisors made perhaps during the heat of a quarrel, to ratings made calmly, deliberately, systematically....". In addition to this need for minimizing the effects on the ratings of the frailties of the rater, ⁷ Jucius sees further value in the formal recorded rating, in providing a means for preserving a measure of an employee's worth so that even in a large industry the treatment received by all employees and the opportunities opened to them will be consistent throughout the organization.

OBJECTIVES OF RATING

The objectives of rating are manifold. Principally, of course, the purpose is to secure a recorded judgement of the employee's value to the organization. But underlying this and giving it direction and motive, are many specific aims. Mention has been made of the utility of ratings in affording a basis for choice between one's subordinates for special assignments, special awards, promotions, and reductions in force. Less obvious but no less important, is the ⁸ use suggested by Yoder, of ratings as criteria for evalu-

ating the effectiveness of other personnel practices. Tiffin⁹, Pigors and Myers¹⁰, and Mosher and Kingsley¹¹ made much the same point when they listed ratings as a source of information on which to base programs for employee improvement, training, and development. Associated with this is the use of the data from ratings as a foundation and guide for studies to improve screening and selection procedures. Further, operation of a good rating plan results in improvement of the supervisor, as mentioned by both Tiffin¹² and Jucius¹³, and therefore such improvement may be considered as one of the purposes of the program.

Not specifically mentioned in the literature is the use of the service rating as an instrument to aid in the fostering of good discipline and morale. Much good work and many minor deficiencies are not deserving of special action other than as reflected in the marking of the service rating blank. Yet good work must be rewarded and brought to the attention of the employee and management, and the service rating provides a means of doing this. Though the effect on the employee may be vitiated somewhat by the fact that the psychologically sound principle of the "immediacy of the reward" is violated, the dependence on the service rating as a form of reward is justified on pragmatic grounds.

THE VALUE OF SERVICE RATING TO THE NAVY

The considerations which serve to render service ratings so valuable to large industries are effective to an even greater degree in the personnel administration of the Naval Service. Three conditions operate to make this true. First, there is the fact of sheer numbers. The officer corps of the Regular Navy is composed of 43,939 individuals¹⁴ while the officers of the Naval Reserve total up to a much larger figure. Second, the problem posed by size is complicated by the twin factors of wide dispersion over large areas of the earth, and mobility within and beyond those areas. In fact, it is safe to say that Naval units are likely to be found anywhere except possibly behind the "Iron Curtain", the currently popular term for the boundary between Russian dominated territory and the rest of the world. Finally, the difficulties of Naval authorities are not limited to the problem of size and ubiquity. An even more severe strain is placed on administration during periods of rapid expansion in times of National Emergency and during the process of demobilization when the emergency has passed. With final authority for all administrative action necessarily centralized in the Navy Department in Washington, and with so many individuals involved in numerous widely separated and mobile groups, personal knowledge on the part of those responsible for admin-

Fig. 10. σ_{eff} vs. σ_{eff} .

[illegible]

istrative action, of the qualities of even a small number of the officers of the Navy is impossible.

The Navy Department recognizes the importance of service ratings, or fitness reports. Ample evidence of this is contained in the following passage from Navy Regulations.¹⁵

Article 1701. Fitness Reports and Records of Officers.

1. The fitness of an officer for the service, with respect to promotion and assignment to duty, is determined by his record. Reports of fitness are decisive in the service career of the individual officer, and have an important influence on the efficiency of the entire service.....

The Navy's "OFFICER'S FITNESS REPORT", Form NAVPERS 310 A (Rev 6-45), is intended to fill the need for a merit rating in the Service, but unfortunately it is a partial failure. First of all, it is subject to significant observer errors, like most rating devices and, disappointingly, its design omits several features which authorities consider will eliminate or reduce such errors. In addition, its makeup does not provide for the use of the latest techniques in machine scoring, sorting, and tabulation. This is an important weakness in view of the growing importance of maximum efficiency implicit in the concept of readiness for "Total War". Although small numbers of the fitness reports are not laborious to prepare, any considerable study of even a moderate number of them, such as must be performed when making selections for promotion or special assignments, or

1. The first of the three main points of the report is that the

the office of the Secretary of the Department of the Interior

The Secretary of the Department of the Interior has been

vice versa of the Department of the Interior has been

concluded in the following manner: The Department of the Interior

26 March 1931. Secretary of the Department of the Interior

Official

1. The first of the three main points of the report is that the
the office of the Secretary of the Department of the Interior
The Secretary of the Department of the Interior has been
vice versa of the Department of the Interior has been
concluded in the following manner: The Department of the Interior

2. The second of the three main points of the report is that the

the office of the Secretary of the Department of the Interior

The Secretary of the Department of the Interior has been

vice versa of the Department of the Interior has been

concluded in the following manner: The Department of the Interior

26 March 1931. Secretary of the Department of the Interior

Official

1. The first of the three main points of the report is that the

the office of the Secretary of the Department of the Interior

The Secretary of the Department of the Interior has been

vice versa of the Department of the Interior has been

concluded in the following manner: The Department of the Interior

26 March 1931. Secretary of the Department of the Interior

Official

for evaluating other personnel procedures, is inefficient and time consuming under present conditions.

for evaluating other personnel procedures, is inefficient
and time consuming under present conditions.

PART I

Chapter 2

PLAN FOR TREATMENT OF THE PROBLEM

The design and use of service ratings is a task in psychological measurement and the designer's most formidable obstacle has been the difficulty of eliminating or controlling the "human error" or bias of the rater. This paper will, therefore, examine rather thoroughly the psychological factors bearing on the question in an effort to show the nature and extent of this "human error" and perhaps assist the reader in gaining insight into the problem.

Much valuable research has been and is being performed in the field of service rating design and use, and a great deal can be learned from a review of the reported results. Consequently, a chapter will be devoted to the description and discussion of the more important types of rating devices and rating procedures in use. This discussion will include weighing of the relative advantages and disadvantages of the several devices and systems and consideration of the various error-producing psychological factors which the measures described are designed to combat. From this treatment a body of "best practices" will be assembled.

The four Services which are included under the general name of "Armed Forces", each use a different type of officer's service rating and each device has its good and

Part I

Chapter I

THE HISTORY OF THE UNITED STATES

The history of the United States is a story of the growth of a nation from a collection of small, separate colonies to a great, unified country. It is a story of the struggles of the people to establish a government that would protect their rights and promote their welfare. The story begins with the first settlers who came to the New World in search of a better life. They found a land of opportunity, but also a land of hardship. They had to fight for their survival against the elements and the native Americans. They had to build a new society from scratch, one that would be based on the principles of liberty and justice for all.

As the colonies grew in number and in size, they began to assert their independence from the British crown. They demanded the right to govern themselves and to be treated as equal members of the British Empire. The British government, however, was determined to maintain its control over the colonies and to ensure that they remained loyal to the crown. This led to a series of conflicts between the colonies and the British, culminating in the American Revolution. The revolution was a struggle for the colonies to establish a new government, one that would be based on the principles of liberty and justice for all. The revolution was a success, and the United States was born.

The United States has since grown into a great nation, one that has played a leading role in the world. It has been a nation of innovation and progress, one that has led the world in many ways. It has been a nation of freedom and democracy, one that has inspired people all over the world. The history of the United States is a story of the triumph of the human spirit, a story of the power of the people to create a better world for themselves and for all.

its bad points. These military service ratings will be described, analyzed, and judged, in the light of the aforementioned "best practices" and, based on this assessment, as well as on the "best practices", a plan for a new improved officer's fitness report form will be proposed for adoption by the Navy. No actual work of construction of the device will be attempted, as such is beyond the scope of this thesis.

As has been stated, much research has been done in this field. In the review of the reported results of that research, credit will be given to the scientists whose material is quoted or referred to wherever possible. It is desired, in addition, to make specific mention here of the works of Grant Sheridan Baze and of Wayne Gilmer Samples. In 1947, Mr. Baze submitted a master's thesis to the Graduate School of The Ohio State University entitled A Rating Scale for Marine Non-Commissioned Officers of the First Three Pay Grades. A year later, Mr. Samples submitted a master's thesis to the same authority entitled A Study of Merit Rating Methods for Professional Employees. Each writer developed a rating scale which he recommended for the purpose stated in the title of his thesis. Although the general type of scale produced by both Mr. Baze and Mr. Sample (the graphic rating scale) could be used as a Naval officer's efficiency rating, the particular scales developed and reported would not be suitable and therefore will not be discussed further.

PART II

Chapter 1

SOME PSYCHOLOGICAL FACTORS BEARING ON THE PROBLEM OF SERVICE RATING

NATURE OF RATING

Heretofore in this thesis, service rating has been described as the judging of the ratee's worth to his organization. Reliance is placed on judgements in this important field of measurement because of lack of better method. To paraphrase Yoder¹ it may be said that many human qualities such as leadership, initiative, persistence, self-control, and others are important to vocational success but objective measures of such characteristics do not exist.

These judgements are reached as a result of the rater's observation or perception of the typical performance, or the characteristic actions or behaviors of the ratee. It has been said that, "Nowhere so much as in judging people is perception likely to be so biased."² Personality is generally thought of by scientists as the total pattern of an individual's reaction to his environment. In truth Stagner³ has defined personality as the integral of an individual's characteristic responses. It is evident, therefore, that the service rating, in assessing the typical performance of the ratee, is attempting to measure an aspect of his personality.

A moment's reflection will bring the realization that

PART II

Chapter I

SOME PSYCHOLOGICAL FACTORS INVOLVED IN
THE FORMATION OF A TYPE

NATURE OF A TYPE

Heretofore in this chapter, attention has been
described as the type of person who is
usually a person of high intelligence in this important
field of measurement because of lack of better method. The
personage Yoder, it may be said, is a person of high intelligence
such as leadership, individuality, persistence, self-control,
and others are important to the personage Yoder and objective
measures of such characteristics are not available.
These judgments are based on a series of
repeated observations of the personage Yoder in the personage Yoder
or the characteristic activities of the personage Yoder. It
has been said that "personage Yoder" is a personage Yoder
personage Yoder is a personage Yoder. The personage Yoder is a
series of observations of the personage Yoder in the personage Yoder
individual's reaction to the environment. In the personage Yoder
has defined personage Yoder as a personage Yoder. The personage Yoder
is a personage Yoder. The personage Yoder is a personage Yoder.
The personage Yoder is a personage Yoder. The personage Yoder is a personage Yoder.
The personage Yoder is a personage Yoder. The personage Yoder is a personage Yoder.

The personage Yoder is a personage Yoder. The personage Yoder is a personage Yoder.

personality is a complex entity; just how complex is revealed in the findings of Allport and Odbert⁴ that there are 17,953 words in the English language used to describe the behavior of one person as distinguished from another. Even when allowance is made for overlap in meaning among these words, the range of differences in behavior provided for remains very great indeed.

Due to the interrelation between a man's perceptions and his beliefs and attitudes, which will be discussed more fully below, the service rating is more than a record of personality as perceived. Under most systems, inextricably included in his concept of the ratee is a description of the rater's beliefs and attitudes toward the ratee.

The value of a formal rating system has been discussed. Such a system will require the rater to describe his concept of each ratee on a separate form. A well designed form will provide guidance and assistance to the rater in his striving for objectivity as well as a place to record his judgements. Fuller appreciation of the acuteness of the need for this guidance and assistance will come as we discuss on succeeding pages some of the more important psychological influences operating to impair the objectivity of the rater's judgements.

SOME DETAIL ABOUT THE PERCEPTION

Social psychologists teach that a person's perception of what takes place around him is profoundly affected

[illegible][illegible]

by factors within him and that many of these interior influences are themselves the product of the individual's prior perception and learning. An example of this theory as well as a clue to the nature of some of the interior modifiers may be found in the following quotations:

How we perceive the world is a product of memory, imagination, hearsay, and fantasy as well as what we are actually "perceiving" through our senses.⁵

Data are perceived and interpreted in terms of the individual perceiver's own needs, own emotions, own personality own previously formed cognitive patterns.⁶

The reader will readily see the truth in the foregoing and can perhaps recall actual instances in which portions of it have been borne out by experience. In addition there has been much experimental proof. However, only a few of the more important experiments can be cited here because of space limitations.

It was mentioned that imagination, emotions, and "previously formed cognitive patterns" (beliefs and attitudes) affect perception. Murray⁷ found this borne out in his experiment in which a group of girls perceived maliciousness to a greater extent in a man's pictured face after they had played a game of "murder". Leuba and Lucas⁸ found similarly that a person's mood significantly influenced his perception of moods in the people in pictures shown to him. Another investigator, Heider, reported that a person may be thought guilty of a crime, because he "looks as if he could have

by factors within him as well as of the interaction in-
fluences are themselves the product of the individual's prior
perception and learning. An example of this theory is well
as a clue to the nature of some of the interaction influences may
be found in the following questions:

How do we perceive the world? Is it a world of
memory, imagination, fantasy, or reality?
Will we see it as it really is, or as we
perceive it?

What are perceived and interpreted in terms
of a individual's past experiences and needs?
What are the individual's past experiences and needs?
What are the individual's past experiences and needs?

The answer to all these questions is the same
and can perhaps be said to be the same. It is the
same of it and seen from the point of view of the
there has been much experimental work done, and it is
of the very important experiments that have been done
of these findings.

It has been found that the individual's perception and

"perception" is not a simple matter of seeing and hearing
either perception. The individual's perception is not a
perception of the world as it is, but a perception of the
world as it is perceived by the individual. The individual's
perception is not a simple matter of seeing and hearing, but
a perception of the world as it is perceived by the individual.
The individual's perception is not a simple matter of seeing and
hearing, but a perception of the world as it is perceived by
the individual.

The individual's perception is not a simple matter of seeing and
hearing, but a perception of the world as it is perceived by
the individual.

committed this crime" or because he has the disposition to do such a thing⁹. And finally Zillig¹⁰ demonstrated that people tend to fail to see the mistakes committed by people they like while at the same time attributing mistakes, without justification, to persons they dislike.

FORMATION OF BELIEFS AND ATTITUDES

Another aspect of the relation between perception and beliefs and attitudes is to be found in the following passage from Krech and Crutchfield:¹¹

A belief (and an attitude also)¹² is a pattern of meanings of a thing;...It is a product of original perceptions, of the re-organization those perceptions have undergone, of the cognitions created by such re-organization, etc.

That is to say, not only is perception influenced by beliefs and attitudes but they are in turn dependent on perception for the raw materials from which they are made.

RETENTION OF BELIEFS AND ATTITUDES

What about the effect of the passage of time on beliefs and attitudes? It is generally understood that there will be some forgetting. Krech and Crutchfield¹³ admitted that what one knows and believes changes with the passage of time but added the valuable thoughts that the effect of time appears "...not only in errors of omission but frequently in errors of commission as well" and "...facts are created through the process of creative forgetting." Adopting the language of Krech and Crutchfield, one may add to the

foregoing the process of "selective forgetting".

Clearcut experimental demonstration of "errors of commission" may be found in Bartlett's¹⁴ experiment in which his subjects, when required to retell an unusual and somewhat ambiguous story, tended to change the unfamiliar content into more familiar material. "Selective forgetting" was recorded by Levine and Murphy¹⁵ when they found that their anti-Communist subjects remembered anti-Communist material better while the pro-Communist subjects retained pro-Communist material more completely. The same study also demonstrated the influence which one's attitudes have on perception, for the subjects learned poorly that material on Communism which was at variance with their views.

RESISTANCE TO CHANGE OF BELIEFS AND ATTITUDES

Though there is a tendency for beliefs and attitudes to change with time, there is a concurrent tendency for them to resist change. This may be thought of as a resistance toward external influences which might cause change. Such a phenomenon is to be expected in the light of the findings of Levine and Murphy already mentioned for there, the information which was contradictory to the views of the subjects was poorly perceived and quickly forgotten. Thus we see that beliefs and attitudes have "self-protective devices"¹⁶ and that they "not only twist and warp facts and thus maintain themselves but create new data for self-incorporation and thus grow in intensity."¹⁷

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

...the process of "socialization".

OTHER FACTORS INFLUENCING OBJECTIVITY

Effect of Length of Acquaintance

It is obvious that the rater's judgement of the ratee is of little value unless the former individual has been acquainted with the latter one sufficiently long. Yet, as warned by Burt¹⁸, there comes a time when, as the length of the acquaintance increases, the accuracy of the ratings decreases. Burt ascribes this phenomenon to, (1) the natural reluctance of the supervisor to imply that his subordinate has not improved under his leadership, and, (2) the equally natural tendency of the supervisor to identify himself with the older subordinates who are more nearly like him in age and experience. Stockford and Bissell¹⁹ found mathematical proof of these tendencies and commented, "...the longer one has known another, the more acceptable becomes the other's personality."

Another aspect of acquaintance affecting the accuracy of judgements is that determined by the conditions under which the acquaintance was made and maintained. A supervisor's attitude toward a subordinate whom he knows only on the job is likely to be quite different from his feelings toward one with whom he associates while off duty. Experimental support of this generalization may be found in Allig's demonstration, already mentioned on page 15, of how people tend to overlook mistakes made by persons whom they like.

Relative Difficulty of Judging Different Traits

It has been found that raters can judge some traits more reliably than others. This phenomenon may be attributed to factors inherent in both the raters and the qualities being considered. The raters, due to their own disparate cultural backgrounds, may be uncertain as to the exact meanings of the terms used on the rating forms, or they may be doubtful as to just what overt behavior indicates the presence of a given trait. When considering the traits, one finds that those which are simple and less complex, and those which cause behavior culminating in tangible results, are more accurately estimated than are the complex characteristics, or those which leave little concrete evidence of their existence. Stockford and Bissell reported, for instance, that "dependability" and "quality of work" were more reliably judged than "morale" and "cooperation".²⁰ These results support earlier similar findings of Hollingworth.²¹ A further difficulty attributable to the traits themselves is touched upon by Stagner in the words, "Things which have the same name are not necessarily the same; e.g., courage in facing a wild animal is not the same as courage in facing adverse public opinion."²²

Generosity Error

When it comes to describing their fellow men, human beings are essentially kind. Lissner²³ found this in connec-

tion with the research incident to the design of the present rating system of the U. S. Army. His resulting comment was, "Though not a necessity of the logic involved, those items which tend to be used most often, i.e., are generally 'preferred' by raters in describing others, are invariably more favorable items--nice things to say." Cronbach named this tendency "generosity error" and added, "It is common to find 60 to 80 percent of an unselected group rated 'above average' because of the urge to speak favorably if possible."²⁴

Error of Central Tendency

Related to generosity error is the tendency of the rater to mark a ratee about whom he has insufficient information "average" or near "average" rather than confess his lack of knowledge. Guilford²⁵ named this phenomenon the "error of central tendency". Unquestionably, when forced to guess as to the qualifications of an individual, one will enjoy the greatest probability of being correct if he guesses that the ratee is average. But service ratings should be based on observation and judgement and guessing is out of place.

Logical Error

Many raters will reason that because the ratee exhibits a certain trait to some degree, he also possesses certain other traits to a similar degree. To their way of thinking, all of that particular group of traits are really the same thing or at any rate, they constitute a syndrome.

Such thinking is fallacious and we are indebted to Greene for focusing attention on it and aptly naming it "logical error".²⁶

There was some indication in the Stockford and Missell study previously mentioned, that the relative proximity of certain traits on the scale will have an influence similar in effect to logical error. In other words, the judgement made on a trait affected slightly but measurably the judgements made on adjacent traits. The authors stated that "....the differences in the inter-correlations between ratings of the same traits varied from $+.01$ to $+.26$ depending directly upon the change in proximity of the traits from one scale to another....."²⁷

Halo

Closely related to logical error in its cause is the "halo" effect. It leads the rater to assume that because his general impression of the ratee is good (or bad), the ratee's showing in all, or in a majority, of the traits on the rating scale is good (or bad). Halo is generally deplored by authorities in rating, with one exception, and, as will be discussed in the next chapter, much design effort has been expended on the problem of how to prevent or minimize it. The exception referred to above is Walter V. Bingham who feels that, to some extent, a halo effect is acceptable and proper, indeed inevitable. In support of this belief he wrote,²⁸

1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

32. 11-000000

11-10-1964

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate.

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Approved: _____ Date: _____

— 15 —

Figure 1. The effect of the concentration of the polymer on the rate of polymerization.

UNITED STATES DEPARTMENT OF JUSTICE

$$-4.0 \pm 0.1 \text{ eV} \text{ for } \text{Fe}_{2.4} \text{O}_4 \text{ and } \text{Fe}_{2.4} \text{O}_{3.8} \text{ (see also ref. 2a)}$$
[illegible]

31/10/2000 10:10:00

Q. 10.

[illegible]

9-10-68

....it is not the rater alone whose reactions to the candidate are in question. He is but typical of others.....who will react to the subject, not as a bundle of isolated traits, but as a person with certain duties. The judgements and responses of all these people will unconsciously and inevitably manifest a halo effect, which is, in part at least, valid.

Differences in Purposes of Raters

It is generally agreed that praise is more effective than reproof in most situations. Definitely greater motivation resulted from praise among school children in an experiment reported by Hurlock.²⁹ Sophisticated raters are aware of this phenomenon and, unless they guard against it, they may allow this knowledge to influence their ratings to the extent that they give higher marks than are deserved on the basis of performance. Some may even go so far as deliberately to give higher markings in the expectation that such marks will spur the ratee to greater effort. The rater would describe this practice as "giving the ratee something to live up to" and would seek to justify it on the ground that he was improving performance by boosting the morale of the ratee.

The effects of frustration have been demonstrated experimentally and well reported. The individual subjected to frustrating circumstances has the choice of resorting to either adaptive or maladaptive behavior. Desirable forms of adaptive behavior which are most likely to be encountered in the rating situation include such effects as intensification of

effort and reorganization of one's perception of the problem. Maladaptive behavior in the rating situation probably would include such adjustments as aggression, regression, withdrawal, and rationalization.

Many raters, even those lacking in formal psychological education, are cognizant of the possible results of frustration, at least to the extent that they recognize that, though frustration may cause increased effort, it may cause instead, withdrawal or quitting. Realization of this may lead a rater to leniency in rating because of a desire, or preference, for relying on the known good effects of praise rather than risking the induction of the maladaptive response of withdrawal by imposing the frustrating experience of a low rating.

Differences in Standards

It has been said that "Individuals differ with respect to almost any human attribute we are to measure."³⁰ Private standards of comparison are a personal attribute, a component of personality, and, therefore, will be found to differ from one individual to the next. Like other personality factors, standards of comparison are a product of the individual's innate characteristics and all the countless influences of his environment. The importance here of differences in private standards of comparison lies in their influence on the rater's judgements. Variations in the standard of comparison obviously will be reflected in variations in measurements.

SUMMARY

We have seen that the service rating process is an attempt to measure an aspect of personality. It does this by having the rater endeavor to describe and record his perception of the ratee. The point was made that perception is likely to be particularly biased when judging people. Inducing this bias are such powerful psychological influences as the perceiver's memory, imagination, emotions, beliefs, and attitudes. The interrelation between these factors and perception was discussed with emphasis on the process in which, (1) beliefs and attitudes, formed, as they are, from biased perception, are retained and further biased by selective and creative forgetting and, (2) subsequent perception is rendered further biased and selective with the result that beliefs and attitudes tend to grow in strength. Further discussion described how inaccuracy in service ratings can come from long or friendly acquaintance between rater and ratee, variations in the difficulty of judging different traits, the innate desire of most men to speak well of others, differences among raters in the results they hope to achieve with ratings, and differences among raters in standards of comparisons.

This is the material and these are the conditions with which the designer and constructor of service rating devices and procedures must work. He is attempting to measure that which is difficult to define and which, in the

present stage of development of the science, can be measured in no other way. He is using as agents, creatures whose performance is unreliable and whose purposes in rating often differ. And finally, he is measuring against differing standards.

present state of development of the science, and to understand
 in no other way. He is said to have been, especially when he
 formed in principle and to have composed in the same
 style. And finally, he is said to have written in the same
 manner.

PART II

Chapter 2

DEVICES AND PROCEDURES IN SERVICE RATING

In the quest for a solution to the difficult measurement problem discussed in the preceding chapter, many different rating forms and procedures have been tried out. However, they are all similar in that each is essentially a means of obtaining a written description of the ratee in terms of traits or behaviors presumed to be indicative of the presence of those traits.

GRAPHIC RATING SCALE

The most widely used rating form is the graphic rating scale. In its simplest form as shown in appendix A, it consists of a list of traits with short lines or graduated scales opposite each trait. One end of each trait scale represents possession of that trait to a maximum degree while the opposite end corresponds to a minimum degree of possession. The form is used in rating by "checking", or otherwise marking, a point somewhere along each trait scale which is judged to indicate the degree to which the ratee possesses the corresponding trait. This builds up a description of the ratee in terms of the traits marked.

As stated in the foregoing, the ends of the trait scales represent maximum and minimum possession respectively of the indicated traits. But most graphic rating forms go

go further than this. It is common practice to provide guidance for the rater in his choice of the spot to be checked on each trait scale. Varying degrees of possession of the traits are indicated by distributing labels along the trait scales. The number of labels is usually three or five but it may be more or less than this.

Symonds¹, writing in 1924, reported that the more mature and interested judges, when the trait was a well defined one such as "neatness", could profitably use a scale of seven class intervals, whereas, when the trait was a vague one such as "tact", or when the judges were immature or lacked interest, only five or four class intervals could be clearly distinguished. Symonds approached the question from the standpoint of employing the number of class intervals which would provide maximum reliability by reason of full use of the judge's powers of discrimination without refining the scale beyond the point where those powers would cease to be effective. He accepted as permissible a loss of reliability of 1.099% due to coarseness of the scale. From calculations based on this, he concluded that "In constructing scales for rating traits of personality the optimum number of class intervals is 7."² Guilford³ declared that the optimum number of scale divisions is five, while a more recent discussion by Ghiselli and Brown offered the comment, "The best that can be done is to discover empirically the optimal number of steps for each scale."⁴

to further than 100. It is common practice to provide
guidance for the reader in the choice of the most
checked on each trait scale. Varying degrees of deviation
of the traits are indicated by distributing the scale
the trait scales. The number of levels is usually three or
five but it may be more or less than this.

"Yacht", article in 1911, reported that the more the
time and interest taken, when the trait was a well de-
fined one such as "neatness", "orderly", "tidiness" and a scale
of seven class intervals, namely, "very poor", "poor", "fair", "good", "very good", "excellent", "superior", was found to be more effective than a scale of five class intervals, namely, "very poor", "poor", "fair", "good", "very good".

or fewer intervals, with five or four class intervals would
be clearly distinguished. Yacht suggested the question
from the standpoint of reliability, a number of class inter-
vals which would provide reliable reliability of response or
full use of the full range of a classification scale re-
sulting in a scale system. It also noted that the more
seems to be effective. He suggested as a possible line of
reliability of 1.0000 the an assessment of the scale. This
calculation based on this, he concluded that "in construct-
ing a scale the writer should be particularly careful to
use of class intervals in 10's, 20's, 30's, 40's, 50's, 60's, 70's, 80's, 90's, 100's, 110's, 120's, 130's, 140's, 150's, 160's, 170's, 180's, 190's, 200's, 210's, 220's, 230's, 240's, 250's, 260's, 270's, 280's, 290's, 300's, 310's, 320's, 330's, 340's, 350's, 360's, 370's, 380's, 390's, 400's, 410's, 420's, 430's, 440's, 450's, 460's, 470's, 480's, 490's, 500's, 510's, 520's, 530's, 540's, 550's, 560's, 570's, 580's, 590's, 600's, 610's, 620's, 630's, 640's, 650's, 660's, 670's, 680's, 690's, 700's, 710's, 720's, 730's, 740's, 750's, 760's, 770's, 780's, 790's, 800's, 810's, 820's, 830's, 840's, 850's, 860's, 870's, 880's, 890's, 900's, 910's, 920's, 930's, 940's, 950's, 960's, 970's, 980's, 990's, 1000's, 1010's, 1020's, 1030's, 1040's, 1050's, 1060's, 1070's, 1080's, 1090's, 1100's, 1110's, 1120's, 1130's, 1140's, 1150's, 1160's, 1170's, 1180's, 1190's, 1200's, 1210's, 1220's, 1230's, 1240's, 1250's, 1260's, 1270's, 1280's, 1290's, 1300's, 1310's, 1320's, 1330's, 1340's, 1350's, 1360's, 1370's, 1380's, 1390's, 1400's, 1410's, 1420's, 1430's, 1440's, 1450's, 1460's, 1470's, 1480's, 1490's, 1500's, 1510's, 1520's, 1530's, 1540's, 1550's, 1560's, 1570's, 1580's, 1590's, 1600's, 1610's, 1620's, 1630's, 1640's, 1650's, 1660's, 1670's, 1680's, 1690's, 1700's, 1710's, 1720's, 1730's, 1740's, 1750's, 1760's, 1770's, 1780's, 1790's, 1800's, 1810's, 1820's, 1830's, 1840's, 1850's, 1860's, 1870's, 1880's, 1890's, 1900's, 1910's, 1920's, 1930's, 1940's, 1950's, 1960's, 1970's, 1980's, 1990's, 2000's, 2010's, 2020's, 2030's, 2040's, 2050's, 2060's, 2070's, 2080's, 2090's, 2100's, 2110's, 2120's, 2130's, 2140's, 2150's, 2160's, 2170's, 2180's, 2190's, 2200's, 2210's, 2220's, 2230's, 2240's, 2250's, 2260's, 2270's, 2280's, 2290's, 2300's, 2310's, 2320's, 2330's, 2340's, 2350's, 2360's, 2370's, 2380's, 2390's, 2400's, 2410's, 2420's, 2430's, 2440's, 2450's, 2460's, 2470's, 2480's, 2490's, 2500's, 2510's, 2520's, 2530's, 2540's, 2550's, 2560's, 2570's, 2580's, 2590's, 2600's, 2610's, 2620's, 2630's, 2640's, 2650's, 2660's, 2670's, 2680's, 2690's, 2700's, 2710's, 2720's, 2730's, 2740's, 2750's, 2760's, 2770's, 2780's, 2790's, 2800's, 2810's, 2820's, 2830's, 2840's, 2850's, 2860's, 2870's, 2880's, 2890's, 2900's, 2910's, 2920's, 2930's, 2940's, 2950's, 2960's, 2970's, 2980's, 2990's, 3000's, 3010's, 3020's, 3030's, 3040's, 3050's, 3060's, 3070's, 3080's, 3090's, 3100's, 3110's, 3120's, 3130's, 3140's, 3150's, 3160's, 3170's, 3180's, 3190's, 3200's, 3210's, 3220's, 3230's, 3240's, 3250's, 3260's, 3270's, 3280's, 3290's, 3300's, 3310's, 3320's, 3330's, 3340's, 3350's, 3360's, 3370's, 3380's, 3390's, 3400's, 3410's, 3420's, 3430's, 3440's, 3450's, 3460's, 3470's, 3480's, 3490's, 3500's, 3510's, 3520's, 3530's, 3540's, 3550's, 3560's, 3570's, 3580's, 3590's, 3600's, 3610's, 3620's, 3630's, 3640's, 3650's, 3660's, 3670's, 3680's, 3690's, 3700's, 3710's, 3720's, 3730's, 3740's, 3750's, 3760's, 3770's, 3780's, 3790's, 3800's, 3810's, 3820's, 3830's, 3840's, 3850's, 3860's, 3870's, 3880's, 3890's, 3900's, 3910's, 3920's, 3930's, 3940's, 3950's, 3960's, 3970's, 3980's, 3990's, 4000's, 4010's, 4020's, 4030's, 4040's, 4050's, 4060's, 4070's, 4080's, 4090's, 4100's, 4110's, 4120's, 4130's, 4140's, 4150's, 4160's, 4170's, 4180's, 4190's, 4200's, 4210's, 4220's, 4230's, 4240's, 4250's, 4260's, 4270's, 4280's, 4290's, 4300's, 4310's, 4320's, 4330's, 4340's, 4350's, 4360's, 4370's, 4380's, 4390's, 4400's, 4410's, 4420's, 4430's, 4440's, 4450's, 4460's, 4470's, 4480's, 4490's, 4500's, 4510's, 4520's, 4530's, 4540's, 4550's, 4560's, 4570's, 4580's, 4590's, 4600's, 4610's, 4620's, 4630's, 4640's, 4650's, 4660's, 4670's, 4680's, 4690's, 4700's, 4710's, 4720's, 4730's, 4740's, 4750's, 4760's, 4770's, 4780's, 4790's, 4800's, 4810's, 4820's, 4830's, 4840's, 4850's, 4860's, 4870's, 4880's, 4890's, 4900's, 4910's, 4920's, 4930's, 4940's, 4950's, 4960's, 4970's, 4980's, 4990's, 5000's, 5010's, 5020's, 5030's, 5040's, 5050's, 5060's, 5070's, 5080's, 5090's, 5100's, 5110's, 5120's, 5130's, 5140's, 5150's, 5160's, 5170's, 5180's, 5190's, 5200's, 5210's, 5220's, 5230's, 5240's, 5250's, 5260's, 5270's, 5280's, 5290's, 5300's, 5310's, 5320's, 5330's, 5340's, 5350's, 5360's, 5370's, 5380's, 5390's, 5400's, 5410's, 5420's, 5430's, 5440's, 5450's, 5460's, 5470's, 5480's, 549

The space on the trait scales between labels may be graduated to permit finer distinctions between ratees. However, the value of these smaller subdivisions of the scales is deprecated by many for the same reasons given above for not using too many class intervals.

The labels used may be merely evaluative terms such as "excellent", "good", and "fair", but the preferred practice is to employ descriptive phrases which define what is excellent, and what is good, and what is only fair. This conforms with the findings of experimenters, to be discussed more fully later, that better results are obtained on rating scales in general which make use of descriptive rather than evaluative terms.

Scoring the Graphic Scale

Scoring of the markings on the graphic scale is usually the responsibility of the central personnel agency. It may be accomplished in any of several ways, the most common of which will be referred to as, the profile method, the direct calculation method, the graphic-computation method, and the machine method.

The profile method.⁵ In this plan the markings are converted into a profile by simply connecting by straight lines the points checked on each trait scale or by constructing a similar figure on a specially prepared profile sheet. Such graphic presentations of the individual scores of all the ratees may be compared with standard profiles and the individ-

The space of the world is not a uniform one. It is divided into regions of different degrees of complexity. The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform.

The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform. The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform.

THE REGIONS OF COMPLEXITY

The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform. The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform.

THE REGIONS OF COMPLEXITY

The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform. The regions of high complexity are those in which the elements are more numerous and more varied. The regions of low complexity are those in which the elements are fewer and more uniform. The regions of intermediate complexity are those in which the elements are neither more numerous nor more varied, nor fewer nor more uniform.

uals may be ranked in accordance with the degree with which their profiles approach the standard.

Profiles are useful in determining the suitability of an individual for a position for which the most satisfactory profile has been determined. However, their use would not be practicable when comparing the ratings of large numbers of individuals, or when any of a number of profiles would be satisfactory for the job, as would probably be the situation in the rating of Naval officers. The writer knows of only one attempt to determine the most satisfactory profile or profiles for Naval officers. It is being carried on in connection with the leadership studies being conducted by The Ohio State University under contract with the Department of the Navy. These studies will be discussed in their bearing on "Criteria" in the next chapter.

The direct calculation method. Rating systems using this method provide the scale values, scoring weights, and space for computation and tabulation directly on the rating blank. It is a little used plan, however, because most rating procedures involve scoring in a central office where the scale values and scoring keys can be conveniently furnished separately, thus simplifying and reducing the cost of the rating blanks. An additional consideration is the desirability of emitting from the rating blanks any indications of the relative values of the individual traits to avoid the possibility of their influencing the rater.

also may be treated in accordance with the provisions of the
these profiles approach the standard.
profiles are used in a number of ways, including the
an individual for a position for which the individual is
profile has been developed. However, the profile is not a
prescription, then concerning the individual's performance of
individuals, or even one of a group of profiles, as in the case
information for the job, as well as the individual's position in
the rating in these cases. The individual's position in the
attempt to determine the individual's position in the profile
for each officer. It is not intended to be a guide for
the individual's position in the profile. The profile is not
various other factors which are not mentioned in the text. The
profiles will be discussed in detail in the next chapter in
the next chapter.

The direct selection method

This method involves the use of a direct selection method, and
space for comparison and the individual's position in the profile
shown. It is a little more difficult to use than the other
the procedure involves the use of a direct selection method, and
the individual's position in the profile. The profile is not
various other factors which are not mentioned in the text. The
profiles will be discussed in detail in the next chapter in
the next chapter.

The graphic-computation method. In this procedure the marks on the individual traits are transformed into numerical values by measuring along the scales in millimeters or other suitable units. These individual trait scores are combined, in accordance with the scoring key, into an overall score. Burt⁶ described this method and a refinement of it in which stencils aid in picking off the scale values.

When scoring ratings in large numbers, manual routines become time and energy consuming to an excessive degree. This detracts seriously from their usefulness to the Navy.

The machine method. When large numbers of ratings are processed, scoring by the International Business Machines Corporation's scoring machine is not only quick and accurate, but also economical. In order that this system may be used, the marks must be placed on special scoring sheets, in the small spaces provided, using special "electrographic" pencils. As the sheets move through the machine at the rate of about 500 per hour, electric brushes pass over them and register an electrical impulse each time they touch the graphite of the pencil marks. These impulses actuate the scoring and tabulating mechanisms of the machine which produce the sought after scores. The special scoring sheet may be separate from the rating blank or, as in the case of the Army's new rating, shown in Appendix K, the two may be printed on the same piece of paper.⁷

Types of Scores

The overall raw scores obtained by any of the foregoing methods can be presented in any of several forms. They may simply be recorded as numerical raw scores or they may be translated into letter scores such as A, B, C, D, or E, etc. Other possibilities are percentile scores, standard or z scores or simply rank order positions.

The numerical score form is not a highly regarded end result. Authorities generally feel that the precision presently attainable in rating is not sufficient to give meaning to differences in numerical scores unless those differences are relatively large. Tiffin⁸ warns against recording total ratings numerically in values covering a wide range and adds that it is better to use ratings of A, B, C, D, and E than to try to explain why one man is rated 248 and another 249 on a scale covering a range of 250.

Ranking is a simple procedure and is easily understood by everyone, but it suffers from one important shortcoming. Burt⁹ calls attention to this weakness with the words, "There is nothing to indicate whether the steps between successive pairs of ranks are equal or otherwise,....".⁹

The percentile score and the z score have much to recommend them. The former is readily understood and, in a sense, any two percentile scores are comparable. However, one must remember that a difference of five percentile units near the middle of the distribution of scores reflects less

difference in ratings than the same difference in percentile units at either end of the distribution. Though less easily understood by the person who is not familiar with the science of statistics, z scores are free from this difference in value between the middle of the distribution and the ends. Further, all z scores are fully comparable with each other and they have added utility in that they can be averaged.

Weighting of Traits

It is obvious that some qualities are more important to success in any particular job than are others. Because of this it is usually desirable to adopt a system of scoring in which the marks on the more important traits are made to "count more" in the overall score than those on the less important items. This weighting is accomplished by multiplying the marks on selected traits by numbers (weights) before computing the overall score. Usually the weights are integers greater than unity.

The magnitudes of these multipliers are determined by expert judgement. Persons experienced in the requirements of the job for which a rating system is being designed, are requested separately to assign what they consider to be the proper weights within a prescribed range of values. The medians of such judgements, normally "rounded off" to the nearest integral value, become the official scoring weights. Marble described the use of this procedure in an actual de-

difference in ratings than the same difference in percentages
 with a different set of conditions. This is fairly
 understood by the person who is not familiar with the relation
 of statistics, a person who reads that this difference is
 no between the limits of the distribution and the mean. But
 then, all a person who will compare with each other and
 they have added nothing in fact they have subtracted.

Weighting of Traits

It is obvious that some qualities are more important
 to measure in any particular job than others. For example
 of this is in the case of a person who is asked to select
 in which the marks on the two important traits are made to
 "weight" them in a certain way. Some marks on the scale are
 placed higher. This weighting is a result of the weighting
 the marks on selected traits in a certain way. (The marks on
 these are given a certain weight. Some are given a higher
 weight than others.)

The question of how to weight the marks is a question of
 expert judgment. It is often explained in the measurement of
 the job for which the rating is made. It is often explained
 that a person who is asked to select a number to be the
 proper weight for the job is a person who is asked to select
 the proper weight for the job. It is often explained that a
 person who is asked to select a number to be the proper weight
 for the job is a person who is asked to select the proper weight
 for the job. It is often explained that a person who is asked
 to select a number to be the proper weight for the job is a
 person who is asked to select the proper weight for the job.

sign situation.¹⁰ Another convenient method involves having the experts list the job's principal traits in the order of their importance. From these nominations weights may be derived, based on the frequency with which each trait is mentioned. A third method was used by Knauff¹¹ whose group of experts used the "Equal Appearing Intervals" technique of L. L. Thurstone in choosing their weights. It is readily apparent that in each of the three foregoing procedures, assignment of weights is based on the "face validity" of the traits being considered.

Burt¹² offered a fourth method of determining scoring weights based on the reliability with which the traits may be judged,¹³ that is, the extent of concurrence between two judges in estimating the same trait or the degree of agreement between successive estimates of the same trait by the same judge. He argued that a highly reliable trait may be given a heavy weight on the assumption that, since it is difficult to determine validity, it is better to deal with the more reliable traits. Moreover, if the judges can agree more closely among themselves on some traits than on others, the former should be given more weight not because they relate more closely to proficiency on the job¹⁴ but because the ratings themselves come nearer to being a true rating of the more reliable traits.

The writer questions the desirability of assigning weights on this basis. Undoubtedly it will lead to improved

significance. In another convenient method involving making the experts list the jobs principal trials in a series of their experiences. From these experiences which may be derived, based on the frequency with which each trial is experienced. A third method was used by Kuhlman which group of experts used the "expert Appraisal Inventory" consisting of 1.1. The inventory is composed of 100 items, 10 of which are apparent that in terms of the items involved in the trial, the alignment of values is based on the "true value" of the trial being considered.

There is offered a fourth method of determining which trial is offered on the reliability with which the trial may be judged. It is that the expert of each group between two judges is selected. The expert of the group of each judge between an expert and a judge of the same group of the same judge. It is noted that a third method was used by Kuhlman which group of experts used the "expert Appraisal Inventory" consisting of 1.1. The inventory is composed of 100 items, 10 of which are apparent that in terms of the items involved in the trial, the alignment of values is based on the "true value" of the trial being considered.

The following method was used by Kuhlman which group of experts used the "expert Appraisal Inventory" consisting of 1.1. The inventory is composed of 100 items, 10 of which are apparent that in terms of the items involved in the trial, the alignment of values is based on the "true value" of the trial being considered.

the reliability of the rating device, but, although validity is dependent upon reliability, heavily weighting an unimportant trait seems likely to undermine rather than bolster the total validity of the rating. Consider a hypothetical extreme situation in which a trait which can be estimated with great reliability (for instance, with a coefficient of reliability of $+0.95$) but which has absolutely no relation to proficiency on the job, has been included on the rating form. What possible value has it, no matter what weight is assigned?

Need for Control of Weighting

Unless special precautions are taken, the different traits may become weighted in a manner not intended. "If you are not considering the variability of the ratings on each trait," wrote Tiffin and Musser, "the trait of least important actually may be receiving the heaviest weight... ..Then combining scores-- regardless of the nature of them-- they weight themselves automatically in proportion to their respective variabilities-- standard deviations."¹³ Tiffin¹⁴ subsequently discussed this phenomenon more fully and gave examples showing how the standard deviation affects the weighting, even to the extent that a completely inaccurate overall rating may result.

The authors¹⁵ recommend control of weighting by transforming trait raw scores into z scores (standard scores) which, as they explain, may be multiplied by the weights without fear of inaccuracy resulting. These weighted z scores may then be

totaled for each individual to obtain his overall standard score.

A simpler device for correcting scores and thereby controlling weighting was suggested by Guilford¹⁶ in the form of a scoring stencil with divisions spaced unevenly. The spacing would be based on the difference between a normal distribution and the average of the actual distributions of the scores.

Advantages of Graphic Scale

The chief advantages of the graphic rating scale may be briefly stated as follows. First, it lists all of the traits which are important to the job and thereby insures consideration of each. Second, it is easily understood by raters and ratees alike. Third, if it is not too lengthy, it may be filled out and used without an excessive expenditure of time and energy. Fourth, it is relatively easy to score by hand and is easily adaptable to machine scoring. And fifth, it provides a specific picture of the ratee's strong and weak points which is useful to the ratee and to management, as has already been discussed under "OBJECTIVES OF RATING" on pages 2 and 3.

Disadvantages of Graphic Scale

The graphic scale, though extensively used because of its important advantages listed above, is subject to nearly all the errors of a psychological origin that are likely to occur.

Failure to obtain spread of scores. The most readily observed shortcoming is the failure of the raters to produce

totalled for each individual to obtain his overall average score.

A simpler device for carrying out the test controlling weightings was suggested by Lilliefors (1950). The score of a scoring system with divisions spaced unevenly. The score would be based on the difference between a normal distribution and the average of the actual distribution of the scores.

3.1.1.1. A variant of the Lilliefors test

The Lilliefors test is a variant of the Kolmogorov-Smirnov test. It is used to test the null hypothesis that a sample is drawn from a normal distribution. The test is based on the maximum difference between the empirical cumulative distribution function and the theoretical cumulative distribution function. The test is relatively easy to score by hand and is easily adapted to the scoring of the test. It provides a specific picture of the pattern of scores and when using which is useful to the test. It is also useful as a test of the null hypothesis. The test is also useful as a test of the null hypothesis. The test is also useful as a test of the null hypothesis.

3.1.1.2. A variant of the Lilliefors test

The Lilliefors test is a variant of the Kolmogorov-Smirnov test. It is used to test the null hypothesis that a sample is drawn from a normal distribution. The test is based on the maximum difference between the empirical cumulative distribution function and the theoretical cumulative distribution function. The test is relatively easy to score by hand and is easily adapted to the scoring of the test. It provides a specific picture of the pattern of scores and when using which is useful to the test. It is also useful as a test of the null hypothesis. The test is also useful as a test of the null hypothesis.

The Lilliefors test is a variant of the Kolmogorov-Smirnov test. It is used to test the null hypothesis that a sample is drawn from a normal distribution. The test is based on the maximum difference between the empirical cumulative distribution function and the theoretical cumulative distribution function. The test is relatively easy to score by hand and is easily adapted to the scoring of the test. It provides a specific picture of the pattern of scores and when using which is useful to the test. It is also useful as a test of the null hypothesis. The test is also useful as a test of the null hypothesis.

a spread of rating scores. That is to say, they fail to obtain anything approximating a normal distribution of scores. Thorndike wrote, "...the variations in any single trait are usually continuous. ...the variations usually cluster around one and only one type."¹⁷ He was referring to, (1) the fact that most people will show a trait or a quality to an average degree or very nearly so, while a few other people will be above or below average, and only a very few will be greatly above or below average and, (2) there are no steps or classes but rather, a continuum in the distribution. The mathematical expression of this distribution is the Gaussian "bell shaped" curve. / through treatment of the characteristics of this curve may be found in Adkins¹⁸ or any standard statistical text. Psychological literature is replete with further discussion and accounts of experimental demonstrations in support of the normal distribution theory. Similarly, most discourses on service rating devices and procedures advance the view that properly made service rating scores will rather closely approximate a normal distribution.

An interesting exception to the unanimity described above may be found in the discussion of service ratings by Mosher and Kingsley.¹⁹ These writers feel that the so called "J curve" type of distribution is to be expected for merit rating scores and, moreover, is quite proper. Their arguments are based on claims that the behaviors recorded are institutional behaviors and the population dealt with is a selected

The first of these is the fact that the population of the United States is increasing at a rapid rate. This is due to a number of factors, including immigration, a high birth rate, and a low death rate. The second factor is the fact that the population is becoming more urbanized. This is due to the fact that people are moving from rural areas to cities in search of better living conditions and economic opportunities. The third factor is the fact that the population is becoming more educated. This is due to the fact that more people are attending school and obtaining higher levels of education.

one.

In saying that there is a failure to produce a spread of scores, reference is made to the tendency of raters to mark all ratees high. This tendency results in a skewed distribution which, if we follow the consensus of psychological opinion, disagrees with reality and makes necessary special procedures to prevent uncontrolled weighting, as was mentioned earlier.

The problem of reliability. The very form of the graphic rating blank tends to increase the reliability of the rating. By requiring the separate consideration of each trait, the tendency to rate on the basis of a recent event, an attitude, a preconceived notion, or halo, is minimized to some extent. It is generally agreed that the resistance of the graphic form to halo effect may be increased by arranging the individual trait scales so that the favorable labels alternate irregularly from the right to the left ends of the scales. Jucius²⁰ recommended also elimination of all graduations from the trait scales (leaving only the labels) and spacing these labels unevenly. These measures will force the rater to read the labels on each individual trait scale and, it is reasoned, consider each trait more carefully before marking. Burt²¹ and Guilford²² suggested that the blank be designed to cause the rating of all ratees on one trait before the next trait is considered. For any considerable number of ratees this would require a separate sheet for each ratee for each trait.

The obvious objection to such a plan is its cumbersome nature.

Another practice which will bring the rater to more thoughtful consideration of the rating is to require that each trait mark be substantiated by a brief account of the ratee's behavior on which the mark is based. A variation of this plan used by some, provides for a notation as to whether the individual trait mark was based on actual behavior or on subjective judgement.

The rating system used in the U. S. Air Force for officers (and described more fully in a succeeding chapter) strives for accuracy by using a standard booklet for each ratee in which day by day observations of significant behaviors are recorded by check-marking in appropriate spaces. At the end of the period when the formal rating is to be made, the consensus of the running record is transferred to a graphic scale sheet which becomes the official rating.

Errors caused by failure of the rater to understand the meaning of the trait names may be reduced by substituting for them phrases descriptive of the behavior which will indicate the presence of those traits. This will also tend to reduce the difficulty due to lack of knowledge by the rater as to what overt behavior he may take as an indication of a particular trait. The superiority of descriptive phrases over trait names was demonstrated by Spockford and Bissell²³ experimentally. A clue as to the reason for this superiority may be found in the writings of Herble²⁴ who concluded that,

"While it may be and frequently is a matter of considerable debate whether an employee is 'resourceful' or not, it may be relatively more simple to agree on whether or not the employee engages in certain observable activities which are by agreement a component part of resourcefulness."

The problem of validity. Validity is sought by, (1) using traits which relate closely to the job and which are important to success in it and, (2) by making the rating device and procedure as reliable as possible. Criteria against which to check validity are sadly inadequate in most cases, as will be discussed in the next chapter. Consequently psychologists are denied the luxury of selecting items empirically and must rely on the judgement of experts for this function. Their hypothesis is that if items which are judged to be valid (and which therefore must appear to relate closely and importantly to the job) can be reliably rated, the overall rating will be valid. Cronbach's declaration that, "Observations by impartial observers are generally accepted as valid if they can be made reliable,"²⁵ illustrates this view. A more precise statement of the relation between reliability and validity, and one which further emphasized the importance of the former to the latter, was given by Adkins who wrote, "Thus it is clear that, except for chance factors, the validity coefficient of a test cannot exceed the square root of its reliability coefficient."²⁶

"While it may be true that the...
 debate whether an employee is...
 be relatively more likely to...
 employee engaged in certain...
 by agreement a... of..."

The Problem of... (1941)

...the... of...
 important to... (1) ...
 vice and procedure as...
 which to check...
 as will be...
 objectives...
 ally an...
 tion. Their...
 be...
 and...
 all...
 attention...
 valid...
 A...
 and...
 of...
 "There is...
 the...
 (1941)

FORCED DISTRIBUTION RATING

Attempts to secure an approximation of the normal distribution have led to the use of the "Forced Distribution" in connection with the graphic scale as shown in Appendix A. For this technique a number of categories from best to poorest is established and the percentage of rates who may be placed in any category is prescribed. Then rating, each ratee is considered in terms of a single trait and then placed in the category deemed proper. When all have been rated and categorized in one trait, the process is repeated for the remaining traits in turn. An overall score may be computed from the ratings thus performed. Tiffin suggested the following distribution for a rating of this type:²⁷

Category	Percentage of ratees in the category
Highest	10
Next highest	20
Middle	40
Next lowest	20
Lowest	10
Total	100

As shown in Figure 1, page 37, this distribution approximates the bell shaped curve of the normal distribution.

If conscientiously executed, the forced distribution system will tend to give a more valid spread of scores, provided a large number of ratees are rated by the same rater. However, where the number is not large, it is probable that the merit of the employees under any one supervisor will not

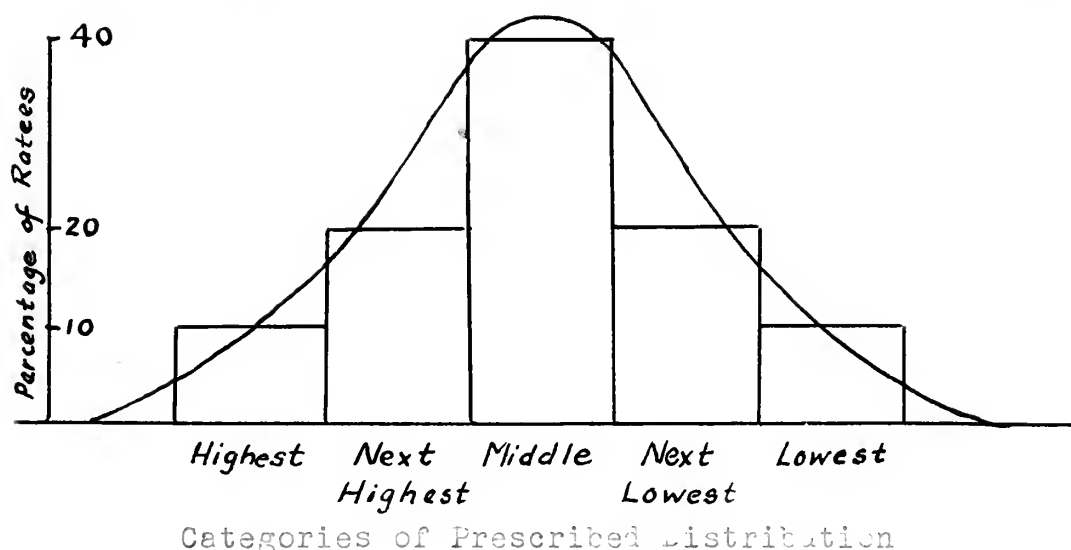
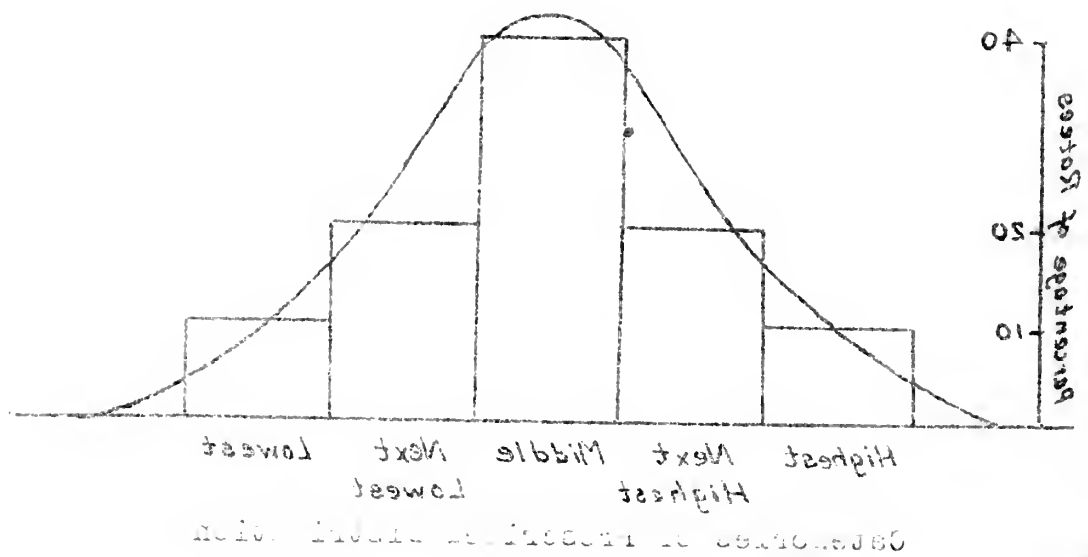


Figure 1

A DIAGRAM SHOWING HOW PRESCRIBED DISTRIBUTION
APPROXIMATES NORMAL DISTRIBUTION

cover the entire range from best to poorest when compared with the merit of all the other employees. If such were the case, a skewed distribution for the ratings of one or more of the supervisors would be proper and any plan to force normal distributions would work an injustice.

The assignment of Naval personnel is not entirely a randomized operation, particularly when detailing officers, and it is probable, therefore, that there will be differences in merit of the officers in one command from those in another. Further, the program of rotation of duty frequently changes the membership of groups of officers. Because of this, any plan of forced distribution is unsuitable for a Navy rating system.



400

[Faint handwritten notes at the bottom of the page]

[illegible]

© 1999, 2004 by The McGraw-Hill Companies, Inc. All rights reserved. Printed in the United States of America. This book is printed on acid-free paper.

[illegible]

RANK ORDER METHOD

It is known that raters find it relatively easier to arrange their subordinates in order from best to poorest than to rate them using the adjectives or descriptive phrases of the usual graphic scale. This procedure of ranking is used as a formal rating procedure in some cases and is known as the "Rank Order Method".

Ranking may be concerned only with a single overall quality such as "job performance" or "promotability", or it may be performed on each of several traits in succession. It is not afflicted with the error of the skewed distribution since it presents the rates only in the order of their excellence relative to each other without regard as to how many are actually "excellent", "average", or "poor".

This system suffers from the same disadvantages and unsuitableness for Navy use discussed for the Forced Distribution System. In addition, like all systems of ranking, this plan is based on the erroneous assumption that the difference between any adjacent pair of ranks is equal, or may be treated as equal, to the difference between any other adjacent pair (see passage quoted from Burt on page 27).

PAIRED COMPARISONS

It is relatively easy to choose which of several men is the best and which is the poorest but, as one approaches the mean of the distribution, discrimination becomes more difficult. An aid in this situation is the method of "Paired

Comparison" in which each individual is compared in turn with every other, in the group being rated, and a judgement is made at each comparison as to which is the better. From these judgements a reliable rank order can be constructed. As in the Rank Order Method, rankings may be obtained on a single overall quality or on a series of specific traits. An application of this method to an actual rating situation was described by Lawshe, Kephart, and McCormick.²⁸ Ratings were obtained with a reported average reliability coefficient of .83.

The method of Paired Comparisons has an additional advantage in that it offers a means of determining the relative values of the differences between adjacent pairs of ranks. Thurstone²⁹ and later Guilford³⁰ described in detail the process involved. It is a workable and satisfactory procedure for scaling items for use on an attitude scale but is likely to require too much time for practical use in scoring ratings. Furthermore, the product of this method of rating is an order of ranks, which, as we have discussed, shares with the Forced Distribution, a real risk of injustice to certain ratees.

There is a serious disadvantage attached to the Paired Comparison Method. Guilford³¹ commented that it takes too much time and is "wearying" to the judges, and reported that a German investigator, L. Witmer, in 1894 criticized the method, after trial, also on the grounds that "it took too much time". A subsequent group of investigators have express-

"Comparison" in which each individual is compared in turn with every other, in the group being tested, and a judgement is made as to which is the better. From these judgements a relative rank order can be constructed. As in the Rank Order Method, rankings are obtained on a single overall basis or on a series of specific traits. An application of this method as an actual testing situation was described by Lawton, Koppert, and Wolford.²² Rankings were obtained with a reported average reliability coefficient of

0.83.

The method of paired comparisons has an additional advantage in that it offers a means of determining the relative values of the differences between adjacent pairs of ranks. Thorndike²³ and later Guilford²⁴ described in detail the procedure involved. It is a somewhat complicated procedure for scaling items but as an analytic device it is likely to require less time for practical use in testing situations. Furthermore, the problem of scale reversal or ceiling is an order of ranks, which, as we have discussed, arises with the Likert Distribution, a real risk of distortion is thereby reduced. There is a serious disadvantage, however, to the Likert Comparison Method, which is that it requires that each item be a "pairing" to the judge, and reported that a certain inconsistency in ratings is thus introduced into the method, since the same item may be judged to be better than one item and worse than another.

ed the contrary opinion, however.³²

Mathematicians have shown that when any certain number of objects are to be paired each with every other in the group, the number of separate pairings is given by the formula:³³

$$\frac{n(n-1)}{2}$$

where n is the total number of objects to be compared. Thus if only 10 ratees are to be rated by this method, the number of separate comparisons will be:

$$\frac{10(10-1)}{2} = 45$$

If comparisons are to be made on more than one quality, the total number of comparisons will be increased accordingly.

Despite the technical excellence of the Paired Comparison Method, its cumbersome nature prevents wide use of it and, coupled with its inherent risk of injustice to certain ratees, renders it unsuitable for Navy use.

MAN TO MAN SCALE³⁴

The Man to Man Scale was developed by the Bureau of Salesmanship Research³⁵ and put to extensive use by the U. S. Army in 1917. It was discarded in 1920 for the graphic scale and is mentioned here only because it served as the prototype from which the graphic scale was developed.

The Man to Man device required that for each trait or quality, the rater set up a master scale listing the names of actual persons known to him arranged in the order of their

23

as the contrary opinion, however. Mathematicians have shown that only certain numbers of objects are to be put in each class, while in the group, the number of objects is given by the formula:

12:33

$$\frac{n(n-1)}{2}$$

where n is the total number of objects to be compared. There are only 10 cases to be made of this method, the number of separate comparisons will be:

$$\frac{10(10-1)}{2} = 45$$

If comparisons are to be made on more than one basis, the total number of comparisons will be increased accordingly. Despite the technical complexity of the method, the method is simple, and, coupled with its insight into the nature of certain things, it is useful in the study of the human mind.

24

MAN TO THE MOON

The Man to the Moon was developed by the Bureau of Aeronautics, Research, and was an extensive use of the Army in 1914. It was directed in 1920 for the public domain and is mentioned here only because it was the first type of device which the public mind has developed. The Man to the Moon was developed in 1920, and was the first of a series of devices which were developed in the Bureau of Aeronautics, Research, and was an extensive use of the Army in 1914. It was directed in 1920 for the public domain and is mentioned here only because it was the first type of device which the public mind has developed.

excellence in the trait. Rating consisted of comparing the ratee with these master scales and assigning him ranks or scores equivalent to those of the persons on the several master scales whom he resembled the most closely in traits.

The task of constructing these master scales proved too laborious and this led to the adoption of the graphic scale which substitutes for the comparison of the ratee with a master scale of actual people, a comparison with a scale of standardized traits or descriptions. This difficulty due to the master scales is a real disadvantage in the practical situation. Because of this and because there are better ways of rating one's subordinates, the Man to Man Method is not suitable for Navy use.

CHECK LIST

In 1927 Probst³⁶ began research to develop a new type of rating. The result has been described as a "check list" because of its form. As shown in appendix A, it presents a series of descriptive statements with provision for the rater to check-mark those which are applicable to the ratee. Scoring weights have been determined by experiment for each item and the sum of the weights of the items checked, when placed in the scoring formula (also developed by "trial and error")³⁷ yield a numerical score which is converted by use of a table into one of ten letter grades.

A number of trials of the device using populations ranging from $N = 20$ up to $N = 3039$ show a consistent ability

to produce distributions which approximate normal distributions rather well.³⁸ Reliability coefficients of $+ .78$ when N was 475 and $+ .918$ for a smaller group were reported³⁹ while validity coefficients, with supervisor judgements as criteria, range from $+ .36$ to $+ .77$ for laborers⁴⁰ and from $+ .43$ to $+ .78$ for seventy-eight public health nurses.⁴¹ An extraordinarily high validity coefficient of $+ .922$ was reported for thirty municipal probation officers with conference ratings as the criterion.⁴²

A report of a more recent use of the Probst type of scale has been made by Knauff. He constructed two similar forms and obtained a reliability of $+ .87$ for one of them⁴³ and a validity, with supervisors' judgements as a criterion, of $+ .59$ for the other.⁴⁴

In discussing the Probst scale, White wrote, "The evidence indicates that satisfactory results can be secured with it."⁴⁵ Mosher and Kingsley also regard the system favorably though they warned of "serious technical weaknesses" in it and discussed them at some length.⁴⁶ They criticized particularly the method of choice of scoring weights, the values of scoring weights assigned, and the frank (and apparently successful) attempt of Probst to design a device which will give a nearly normal distribution of scores.

Recently, Probst has explained his choice of scoring weights and method more completely and has reiterated that he did not set out to force his device to render a normal

distribution. Instead he reported, "The sole aim was to evolve a scheme that would place an employee in the service group that would be generally recognized as correct for him."⁴⁷

COMBINATIONS

The never ending search for improvements in rating devices has led to combinations in the one form of two or more methods of rating in the hope that a summation of advantages would result. The addition of the forced distribution provision to the graphic scale has been discussed already. It is usually achieved by dividing the scale into vertical columns each headed by the proper categorical designation as shown in Appendix A. The instructions for the raters using such a form may make it mandatory that the distribution be followed or they may only urge it.

A man to man rating may be included on the combined form. If such is the case, the rater will find instructions to compare the rates to a list of a prescribed number of individuals known to the rater, and whom he must rank in order from best to poorest. As a result of this comparison, the ratee is to be assigned a rank equal to that of the individual on the list whom he most closely resembles in traits.

Further attempts to obtain validity include requiring the rater to indicate whether, under some specified difficult situation, he would prefer to have the ratee with him, be merely satisfied to have him, or actually prefer not to have him. The subject is also approached from the direction of

distribution. Instead he reported, "The sole aim was to e-
 veive a scheme that would place an employee in the service
 group that would be generally recognized as correct for him."

COMPARISON

The never ending search for improvements in rating
 device has led to combinations in the form of two or
 more ratings of rating in the form that a succession of eleven-
 tages would result. The addition of the forces of distribution
 provision to the rating scale has been the result of this.
 It is usually combined with the rating scale into vertical
 columns each headed by the proper category of distribution as
 shown in Appendix A. The instructions for the rating being
 such a form that it is necessary that the distribution be
 followed in the way of the rating scale.
 A plan to rate a rating can be followed on the combined
 form. It may be the case, the more all that instructions
 to compare the rating to a list of a prescribed number of in-
 dividuals known to the rater, and when to rate them in order
 from best to poorest. As a result of this comparison, the
 rating is to be obtained a rating equal to that of the individual
 (and on the first rating of each of the individuals in the list).
 Further attempts to obtain ratings, which are more
 the rating to be obtained, which is more specific than the
 situation, as well as the rating of the rating, as well as
 the rating of the rating, as well as the rating of the rating, as well as
 the rating of the rating, as well as the rating of the rating, as well as

requiring the rater to express his feelings regarding promotion for the ratee under each of several hypothetical conditions such as, (1) a large percentage of his peers are to be promoted, (2) a moderate percentage are to be promoted, and (3) only a small percentage are to be so rewarded.

Lastly, a brief essay or overall evaluational statement may be required or invited. In this the rater has considerable freedom to set down anything of importance which may be relevant and which has not been covered sufficiently in the other portions of the rating. This is the most subjective portion of an already too subjective measurement but most authorities feel that it should not be omitted. In addition to eliciting information which might otherwise not be brought out, it has the beneficial effect of giving the rater the feeling that he has not been regimented excessively and has been allowed to express his own opinion in his own way. This is likely to be a more important consideration as rating techniques of a more truly objective character are devised.

POOLING AND REVIEW OF RATINGS

Plural ratings. The well known principle that the resultant of assessments by several judges can be more accurate than an appraisal by a single judge is used in many rating programs. "The reliability and validity of ratings," wrote Guilford, "increase with the number of judges."⁴⁸ An example of the effect of increasing the number of judges was reported by Bradshaw as follows:⁴⁹

requiring the rater to express his feelings regarding pro-
motion for the rates under each of several hypothetical con-
ditions such as, (1) a large percentage of his peers are to
be promoted, (2) a moderate percentage are to be promoted,
and (3) only a small percentage are to be promoted.

Lastly, a brief essay on overall emotional satis-
faction may be required or invited. In this the rater has com-
plete freedom to set down anything of importance which
may be relevant and which has not been covered sufficiently
in the other portions of the rating. This is the most sub-
jective portion of an already too subjective measurement and
most authorities feel that it should not be omitted. In addi-
tion to eliciting information which the rater may not be
prompted out, it has the beneficial effect of giving the rater
the feeling that he has not been unduly restricted, and
has been allowed to express his own opinion in his own way.
This is likely to be a more important consideration in rating
techniques of a more fully subjective character are desired.

ROUTING AND REVIEW OF RATINGS

Initial Review. The well known principle that the re-
sults of assessment of others should not be more accurate
than are appreciated by a similar group is well known. Rating
procedures, "The reliability and validity of ratings," would
be improved, "Increase with the number of raters." An example
of the effect of increasing the number of raters was reported
in studies as follows:

Trait	Coefficient of Reliability---		+.75	+.80	+.85	+.90	+.95
1	No. of raters -	17	22	32	50	106	
2	No. of raters -	3	5	7	10	21	
3	No. of raters -	5	7	10	18	33	
4	No. of raters -	7	9	15	21	44	
5	No. of raters -	5	6	9	14	29	

Such plural judgements may be made and combined in conference into a single appraisal or they may be made separately, without consultation, and then averaged. Proponents for either procedure can be found among the authorities in the field of rating.

Favoring the conference plan are both MacCullough⁵⁰ and Yoder.⁵¹ The latter exhibited the extent of his enthusiasm by urging rating by committee even if necessary, because of lack of additional supervisors with the requisite knowledge, to include as members of the rating committee fellow employees of the ratees.

On the other hand, both Tiffin⁵² and Burr⁵³ prefer to secure the advantage of pooled ratings by averaging ratings made individually, and without discussion. Burr wrote:

It has been shown in various connections that greater validity is obtained by averaging independent estimates than by having judges sit together as a committee and make a joint estimate.

Elsewhere⁵⁴ Burr reported that in a study of pooled judgements, when the judgements of twelve judges were each correlated with the criterion the average of the twelve correlations was +.37. However, when the same twelve judgements

[illegible]

proceeding and a finding that the defendant is not entitled to relief.

Following release of the release.

1. The above information was obtained from the files of the
 2. Bureau of the Federal Bureau of Investigation, Department of Justice.
 3. The information was obtained from the files of the Bureau of the
 4. Federal Bureau of Investigation, Department of Justice, and is being
 5. furnished to you for your information.

1. The first step is to identify the problem. This involves understanding the situation and the goals that need to be achieved.

At the time of the investigation, the following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land in question:

were combined into a single figure, this composite judgement correlated +.46 with the criterion.⁵⁵

Probst's scale and accompanying instructions indicate that their designer agrees with Tiffin and Burt. Spaces are provided opposite each item on the scale, for check-marking by three raters. The directions promise that better results will be achieved if the second and third raters will cover the columns containing the check-marks of preceding raters and perform their own ratings uninfluenced by those marks.

Review of ratings. Review at higher echelons of ratings made at lower levels is another possibility for improving judgements. As mentioned above, the Probst scale provides for rating by three persons, with the instructions recommending that the raters make their judgements in inverse order of their seniority. Although, as explained above, it is intended that each perform his task innocent of any knowledge of what his predecessors have done, obviously the knowledge that the ratings performed by juniors will be compared with ratings made by their superiors will have the effect of "review at higher echelons".

The U. S. Army, the U. S. Air Force, and the U. S. Civil Service each follow the practice of review at higher levels. Spaces are provided on their respective rating forms for the action and signature of the reviewing official. The Civil Service in addition requires that ratings be reviewed and approved by a committee.

were combined into a single figure, this combined figure was correlated +.46 with the criterion.

Proctor's scale and corresponding instructions indicate that their design agrees with Miller and Harter. Spaces are provided opposite each item on the scale for check-marking by three raters. The instructions require that better results will be achieved if the second and third raters will check the columns containing the check-marks of preceding raters and perform their own rating independently of those marks.

Review of Ratings.

Items made at lower levels in the hierarchy are reviewed for appropriateness. In addition, the items are reviewed for rating by three persons, with the instructions recommending that the raters rate their judgments in inverse order of their certainty. Although, as explained above, it is intended that each person rate each item independently of what the other predecessors have done, optional instructions that the ratings be reviewed by judges will be compared with ratings made by their raters will have the effect of "reviewing" these ratings.

The U. S. Army, the U. S. Air Force, and the U. S. Navy have each followed the design of review in their ratings. Spaces are provided on the rating scale for the review of each item by a reviewer. The review is made in addition to the rating of the item. The review is made by a reviewer.

When preparing to implement a new rating device,⁵⁶ Army investigators conducted experiments to determine the value, if any, of review of ratings. They found that the validity was improved a statistically significant amount and therefore included the review procedure in their new program.

The practice of requiring substantiating statements, (see page 34) though its primary purpose is to cause careful thought by the rater, may also be considered a measure to facilitate review. This is true even in a system in which ratings are accepted and filed as made. The substantiating statements will aid the central personnel agency in evaluating the ratings, attaching significance to those on which the substantiating statements indicate accurate ratings and giving less consideration to those on which the statements fail to support the marks given.

NEW APPROACH

The product of a relatively new approach to the problem of rating was placed in regular use by the Army in 1947. It employs the forced choice technique principally and, consequently, has come to be known as the Army's New Forced Choice Rating. It is the outcome of nearly two years work by a group of psychologists in the Army, during which they had the advantage of carefully controlled tests of the device in rating almost 50,000 officers. The results were reported to be quite good and the device was declared, "definitely

superior to any other yet devised and tested in fulfilling the requirements of an adequate rating system for Army purposes--...."57

The forced choice technique had been used with some success in personality measurement, The Jurgensen Classification Inventory and the Shipley Personal Inventory being notable examples. Their purpose, which they achieved to an acceptable degree, was to secure a true measure of an individual's personality despite the tendency of most people to conceal what they consider are undesirable or socially unacceptable aspects of their personalities. This technique for forcing the respondent to reveal his personality was adapted by the Army psychologists to forcing the rater to reveal his real opinion of the ratee.

A more detailed description and discussion of the forced choice rating will be found in Chapter 4, PART II.

NUMBERS OF TRAITS

Mathematical considerations. Thus far the discussion has been concerned with attempts to improve reliability and validity by refinements of rating devices, design of different rating methods, and by various combinations of method and device. Mathematically it has been shown that increasing the length of a psychological measuring instrument increases the reliability and validity. The formulae showing these relations are as follows:

- (a) The general form of the Spearman-Brown prophecy

agreement to any other yet devised and tested in the laboratory.
The performance of an average subject is about 100% correct.
Post-1957

The London School of Economics and Political Science has been
concerned in general with the study of the human mind (behaviour)
and the physical and social sciences. The school has been
concerned with the study of the human mind (behaviour) and the
physical and social sciences. The school has been concerned with
the study of the human mind (behaviour) and the physical and
social sciences. The school has been concerned with the study of
the human mind (behaviour) and the physical and social sciences.
The school has been concerned with the study of the human mind
(behaviour) and the physical and social sciences. The school has
been concerned with the study of the human mind (behaviour) and
the physical and social sciences. The school has been concerned
with the study of the human mind (behaviour) and the physical
and social sciences. The school has been concerned with the study
of the human mind (behaviour) and the physical and social
sciences. The school has been concerned with the study of the
human mind (behaviour) and the physical and social sciences.

A more detailed description of the structure of the
London School of Economics and Political Science is given in
the following table.

Administrative Organisation. The school is divided into
four main departments: the Department of Economics, the
Department of Political Science, the Department of Social
Sciences, and the Department of Law. Each department is
headed by a professor and is responsible for the teaching
and research in its field. The school also has a number of
other departments, including the Department of Education,
the Department of Geography, the Department of History,
the Department of Mathematics, the Department of Medicine,
the Department of Music, the Department of Natural Sciences,
the Department of Philosophy, the Department of Psychology,
the Department of Sociology, the Department of Theology,
the Department of Veterinary Science, the Department of
Zoology, and the Department of Botany.

(2) The following table shows the number of students in each department.

formula for predicting the reliability of a test of increased length is:⁵⁸

$$r_{nn} = \frac{nr}{1+(n-1)r}$$

In which:

r_{nn} is the predicted coefficient of reliability of the lengthened test.

n is the number of times by which the test has been lengthened.

r is the coefficient of reliability of the test before lengthening.

(b) The general formula for predicting the validity of a test of increased length is:⁵⁹

$$r_{(nx)y} = \frac{r_{xy}}{\sqrt{\frac{1 - r_{xx}}{n} + r_{xx}}}$$

In which:

$r_{(nx)y}$ is the predicted coefficient of validity of the lengthened test.

r_{xy} is the validity coefficient of the test before lengthening.

r_{xx} is the reliability coefficient of the test before lengthening.

A basic assumption underlying the above formulae is that each item of the lengthened instrument measures some relatively unique quality. Mathematically stated, the assumption is that the items correlate low with each other.

In favor of a reduced number of traits. There is a feeling that rating scale items generally do not meet this

formula for prediction, the reliability of a test of increased length is:

$$r_{\text{pred}} = \frac{r}{1 - (1 - r^2)}$$

In which:

r_{pred} is the predicted coefficient of reliability of the lengthened test.
 r is the coefficient of reliability of the test of the original length.
 n is the number of times by which the test was lengthened.

(d) The general formula for prediction of reliability of

a test of increased length is:

$$r_{\text{pred}} = \frac{r^2}{1 - (1 - r^2)}$$

In which:

r_{pred} is the predicted coefficient of reliability of the lengthened test.
 r^2 is the reliability coefficient of the test before lengthening.
 r_{xx} is the reliability coefficient of the test before lengthening.

A third equation which is used above formula is:

There is a direct relationship between the length of the test and the reliability of the test.

Reliability of a test is directly proportional to the square of the length of the test.

This is also true for the reliability of a test of increased length.

The formula for prediction of reliability of a test of increased length is:

Reliability of a test of increased length is directly proportional to the square of the length of the test.

requirement of uniqueness. Lawche, in describing the halo effect, wrote that the tendency of raters to mark an individual about the same on each trait "suggests that the many different items are, in reality, measuring about the same thing..."⁶⁰ The seventy-seven raters participating in the study reported by Stockford and Bissell reacted to only three basic factors (technical proficiency, mental proficiency, and social proficiency) even though the rating scale they used was made up of considerably more than three items.⁶¹ A factor analysis by Swart, Seashore, and Tiffin of 1120 ratings made on a twelve trait scale caused the investigators to conclude that, "worker competency could be rated on one or possibly two 'traits' as well as it is now rated on the basis of twelve"⁶²

The case for a larger number. An answer to such criticisms can be found in the writings of both Bingham and Probet. The former, in reply to the question of why raters should be required to record trait ratings when they correlate so closely with the final overall estimate, declared:⁶³

...an overall judgement is more likely to be correct if made after the rater's attention has been focussed successively on several of the candidate's specific traits.

Probet has condemned what he calls "Overloaded Factors", items on rating scales which are too all-inclusive such as "quality of work".⁶⁴ Moreover, Swart, Seashore, and Tiffin did not close the door completely on multitrait rating scales. After

reporting their findings as described above, they called attention to the specificity of those findings and advanced the hypothesis that improved ratings would be possible on a multitrait scale which was made up of a number of unique items.⁶⁵

Looking at the field of physical science for a moment, one will recall that an accurate measurement in that sphere is not the result of a single observation, but rather, it is the average (or some other measure of central tendency) of the results of several observations. It is quite possible that the use of a rating scale which employs ratings on twelve or more items to measure "one or possibly two" factors of worker competence is a similar process of averaging the results of several observations.

The writer was unable to find reports of any actual reliability or validity comparisons between rating scales which had been shortened, because of the findings of a factor analysis, and the long forms of such scales. A comparison of that nature would be a fruitful research project, it is believed, and the writer submits that any judgement as to whether a short or a long rating form is the better should await the outcome of such a test.

A final consideration in favor of a multitrait scale emerges when one realizes that a rating on an abbreviated scale of one or two factors will afford little information on which either management or the employee can base action leading to improvement of the latter. For instance, one of

repeating each finding as described above, I will call it
 function as the specificity of these findings are understood
 the hypothesis that the hypothesis will be tested as a
 hypothesis will be tested as a number of findings in

form.

Looking at the list of statistical relations for a moment,
 one will recall that an analysis of variance is a test of
 is not the same as a simple observation, as before, it is
 the same as for some other kind of control (usually) of
 the system of control observation. It is also useful
 that the use of a control system would require a
 system of control observation. It is also useful
 that of control observation is a simple test of control
 the results of control observation.

The test of control is in the form of an actual
 relationship of control observation between two values
 when the test is applied, the results of the test of a test
 for a value, and the test is not a test of control
 but of the test of a test of control. It is also
 is applied, and the test is not a test of control
 when a test of a test of control is applied to a test

test of control is a test of control. It is also
 test of control is a test of control. It is also
 test of control is a test of control. It is also
 test of control is a test of control. It is also

the factors isolated by Lwart, Beach, and Tiffin was "Ability to do Present Job". Is it likely that management or the ratee can do much toward improving the ratee in this factor unless his specific shortcomings as related to job performance are known?

The importance of the rating in employee improvement was stressed early in this thesis (pages 2 and 3) and it will receive further attention later in connection with the treatment of the practice of showing the ratee his ratings and discussing them with him. No design feature which seriously limits the usefulness of the rating in the important function of employee improvement should be adopted.

Practical considerations. Should the rating scale designer resist the blandishments of the advocates of the abbreviated scale and plan a many-itemed device to aid the thinking of the rater, as suggested by Dingle and by Probst, and to provide a basis for employee improvement, he must, nevertheless, guard against making his scale too long. He must give due consideration to the very real factors of cost of the form and of its administration, and he must bear in mind lest he induce a perfunctory attitude in the raters by foisting upon them a form which requires an excessive amount of their time and energy.

ADMINISTRATION OF RATING PROGRAM

Showing ratings to ratees. Implicit in the objectives of rating is the requirement that the ratee see his rating.

The factors involved in the selection of a person for a job are of great importance. It is likely that management of the firm will be more successful if it selects the right person for the job. The selection process should be based on the following factors:

The importance of the position in the firm is a factor in the selection process. The position should be clearly defined and its importance should be made known to the candidates. The selection process should be based on the following factors:

1. Technical qualifications. The candidate should have the necessary technical qualifications for the job. The selection process should be based on the following factors:

2. Personal characteristics. The candidate should have the necessary personal characteristics for the job. The selection process should be based on the following factors:

3. Education. The candidate should have the necessary education for the job. The selection process should be based on the following factors:

4. Experience. The candidate should have the necessary experience for the job. The selection process should be based on the following factors:

5. Cost. The candidate should be selected at a reasonable cost for the firm. The selection process should be based on the following factors:

A selection process should be based on the following factors:

6. Availability. The candidate should be available for the job. The selection process should be based on the following factors:

7. References. The candidate should have good references. The selection process should be based on the following factors:

8. Interview. The candidate should be interviewed by the firm. The selection process should be based on the following factors:

Halsey,⁶⁶ Yoder,⁶⁷ and Probst,⁶⁸ in common with many other authorities in this field, have agreed that provision should be made in every rating program for the employees to see, or be informed of, their ratings. Scott, Clothier, Mathewson, and Spriegel also recommended a post-rating interview between rater and ratee and proposed the following statements for the rater to complete in planning the interview:⁶⁹

How I Can Help Him To Be More Effective
On His Present Job:

He should be given additional instruction on _____
 He should be given additional experience on _____
 such jobs as _____
 He should study such subjects as _____
 He should change his attitude as follows _____
 There is nothing more I can do for him because _____
 Remarks: _____

More recently, Armstrong wrote of the post-rating interview.⁷⁰ After some discussion, he proposed the form shown in Figure 2, page 54, to be printed on the rating blank and to be used in preparing for the interview. In addition, he offered the suggestions for actual conduct of the interview shown in Figure 3, page 55.

Who should rate. Obviously he who has the most accurate knowledge of the ratee should perform the rating and no disagreement relative to the statement as voiced here will be encountered. However, the question often arises as to whether it might not be better to utilize ratings made by the ratee's peers or his subordinates instead of those performed by his superiors.

RATING FORM	
TRAITS	: _____ :
	: _____ :
	: _____ :
PLAN YOUR TALK TO MAN	
TALK TO HIM ABOUT THREE FIRST	THEN TALK TO HIM ABOUT THREE
(Favorable Remarks)	(Unfavorable Remarks)

FIGURE 2

FORM TO AIR LECTUR
IN PREPARING
FOR POST RATING INTERVIEW

WATSON

1

T. A. T.

2

3

WATSON
TO MAN

WATSON
TO MAN

WATSON
TO MAN

(WATSON)

(WATSON)

WATSON

WATSON
TO MAN

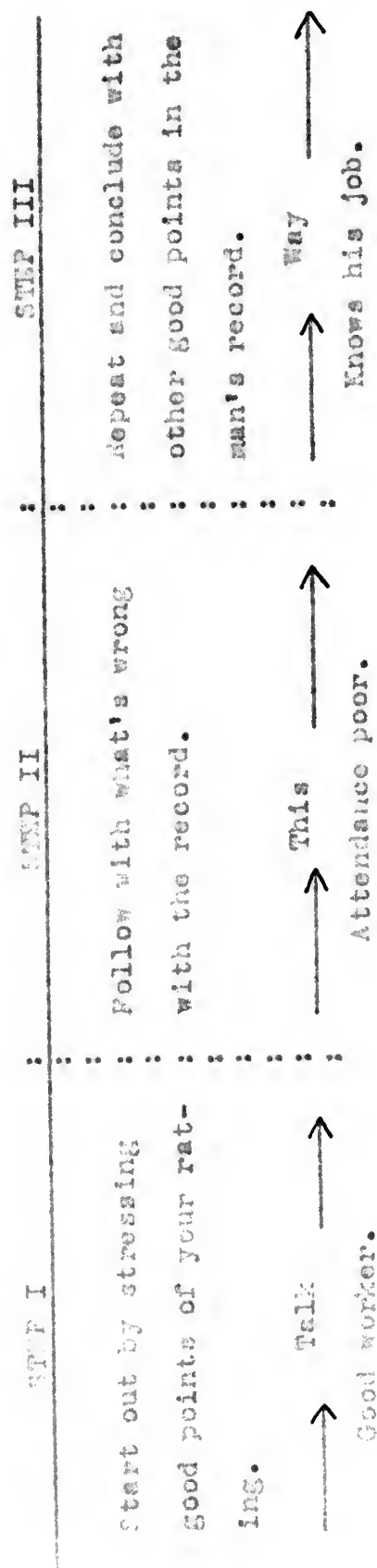


FIGURE 3
PROCEDURE FOR THE WRITING INTERVIEW

III 1977

1. 1977-1978
 2. 1978-1979
 3. 1979-1980
 4. 1980-1981
 5. 1981-1982
 6. 1982-1983
 7. 1983-1984
 8. 1984-1985
 9. 1985-1986
 10. 1986-1987
 11. 1987-1988
 12. 1988-1989
 13. 1989-1990
 14. 1990-1991
 15. 1991-1992
 16. 1992-1993
 17. 1993-1994
 18. 1994-1995
 19. 1995-1996
 20. 1996-1997
 21. 1997-1998
 22. 1998-1999
 23. 1999-2000
 24. 2000-2001
 25. 2001-2002
 26. 2002-2003
 27. 2003-2004
 28. 2004-2005
 29. 2005-2006
 30. 2006-2007
 31. 2007-2008
 32. 2008-2009
 33. 2009-2010
 34. 2010-2011
 35. 2011-2012
 36. 2012-2013
 37. 2013-2014
 38. 2014-2015
 39. 2015-2016
 40. 2016-2017
 41. 2017-2018
 42. 2018-2019
 43. 2019-2020
 44. 2020-2021
 45. 2021-2022
 46. 2022-2023
 47. 2023-2024
 48. 2024-2025
 49. 2025-2026
 50. 2026-2027
 51. 2027-2028
 52. 2028-2029
 53. 2029-2030
 54. 2030-2031
 55. 2031-2032
 56. 2032-2033
 57. 2033-2034
 58. 2034-2035
 59. 2035-2036
 60. 2036-2037
 61. 2037-2038
 62. 2038-2039
 63. 2039-2040
 64. 2040-2041
 65. 2041-2042
 66. 2042-2043
 67. 2043-2044
 68. 2044-2045
 69. 2045-2046
 70. 2046-2047
 71. 2047-2048
 72. 2048-2049
 73. 2049-2050
 74. 2050-2051
 75. 2051-2052
 76. 2052-2053
 77. 2053-2054
 78. 2054-2055
 79. 2055-2056
 80. 2056-2057
 81. 2057-2058
 82. 2058-2059
 83. 2059-2060
 84. 2060-2061
 85. 2061-2062
 86. 2062-2063
 87. 2063-2064
 88. 2064-2065
 89. 2065-2066
 90. 2066-2067
 91. 2067-2068
 92. 2068-2069
 93. 2069-2070
 94. 2070-2071
 95. 2071-2072
 96. 2072-2073
 97. 2073-2074
 98. 2074-2075
 99. 2075-2076
 100. 2076-2077
 101. 2077-2078
 102. 2078-2079
 103. 2079-2080
 104. 2080-2081
 105. 2081-2082
 106. 2082-2083
 107. 2083-2084
 108. 2084-2085
 109. 2085-2086
 110. 2086-2087
 111. 2087-2088
 112. 2088-2089
 113. 2089-2090
 114. 2090-2091
 115. 2091-2092
 116. 2092-2093
 117. 2093-2094
 118. 2094-2095
 119. 2095-2096
 120. 2096-2097
 121. 2097-2098
 122. 2098-2099
 123. 2099-2100
 124. 2100-2101
 125. 2101-2102
 126. 2102-2103
 127. 2103-2104
 128. 2104-2105
 129. 2105-2106
 130. 2106-2107
 131. 2107-2108
 132. 2108-2109
 133. 2109-2110
 134. 2110-2111
 135. 2111-2112
 136. 2112-2113
 137. 2113-2114
 138. 2114-2115
 139. 2115-2116
 140. 2116-2117
 141. 2117-2118
 142. 2118-2119
 143. 2119-2120
 144. 2120-2121
 145. 2121-2122
 146. 2122-2123
 147. 2123-2124
 148. 2124-2125
 149. 2125-2126
 150. 2126-2127
 151. 2127-2128
 152. 2128-2129
 153. 2129-2130
 154. 2130-2131
 155. 2131-2132
 156. 2132-2133
 157. 2133-2134
 158. 2134-2135
 159. 2135-2136
 160. 2136-2137
 161. 2137-2138
 162. 2138-2139
 163. 2139-2140
 164. 2140-2141
 165. 2141-2142
 166. 2142-2143
 167. 2143-2144
 168. 2144-2145
 169. 2145-2146
 170. 2146-2147
 171. 2147-2148
 172. 2148-2149
 173. 2149-2150
 174. 2150-2151
 175. 2151-2152
 176. 2152-2153
 177. 2153-2154
 178. 2154-2155
 179. 2155-2156
 180. 2156-2157
 181. 2157-2158
 182. 2158-2159
 183. 2159-2160
 184. 2160-2161
 185. 2161-2162
 186. 2162-2163
 187. 2163-2164
 188. 2164-2165
 189. 2165-2166
 190. 2166-2167
 191. 2167-2168
 192. 2168-2169
 193. 2169-2170
 194. 2170-2171
 195. 2171-2172
 196. 2172-2173
 197. 2173-2174
 198. 2174-2175
 199. 2175-2176
 200. 2176-2177
 201. 2177-2178
 202. 2178-2179
 203. 2179-2180
 204. 2180-2181
 205. 2181-2182
 206. 2182-2183
 207. 2183-2184
 208. 2184-2185
 209. 2185-2186
 210. 2186-2187
 211. 2187-2188
 212. 2188-2189
 213. 2189-2190
 214. 2190-2191
 215. 2191-2192
 216. 2192-2193
 217. 2193-2194
 218. 2194-2195
 219. 2195-2196
 220. 2196-2197
 221. 2197-2198
 222. 2198-2199
 223. 2199-2200
 224. 2200-2201
 225. 2201-2202
 226. 2202-2203
 227. 2203-2204
 228. 2204-2205
 229. 2205-2206
 230. 2206-2207
 231. 2207-2208
 232. 2208-2209
 233. 2209-2210
 234. 2210-2211
 235. 2211-2212
 236. 2212-2213
 237. 2213-2214
 238. 2214-2215
 239. 2215-2216
 240. 2216-2217
 241. 2217-2218
 242. 2218-2219
 243. 2219-2220
 244. 2220-2221
 245. 2221-2222
 246. 2222-2223
 247. 2223-2224
 248. 2224-2225
 249. 2225-2226
 250. 2226-2227
 251. 2227-2228
 252. 2228-2229
 253. 2229-2230
 254. 2230-2231
 255. 2231-2232
 256. 2232-2233
 257. 2233-2234
 258. 2234-2235
 259. 2235-2236
 260. 2236-2237
 261. 2237-2238
 262. 2238-2239
 263. 2239-2240
 264. 2240-2241
 265. 2241-2242
 266. 2242-2243
 267. 2243-2244
 268. 2244-2245
 269. 2245-2246
 270. 2246-2247
 271. 2247-2248
 272. 2248-2249
 273. 2249-2250
 274. 2250-2251
 275. 2251-2252
 276. 2252-2253
 277. 2253-2254
 278. 2254-2255
 279. 2255-2256
 280. 2256-2257
 281. 2257-2258
 282. 2258-2259
 283. 2259-2260
 284. 2260-2261
 285. 2261-2262
 286. 2262-2263
 287. 2263-2264
 288. 2264-2265
 289. 2265-2266
 290. 2266-2267
 291. 2267-2268
 292. 2268-2269
 293. 2269-2270
 294. 2270-2271
 295. 2271-2272
 296. 2272-2273
 297. 2273-2274
 298. 2274-2275
 299. 2275-2276
 300. 2276-2277
 301. 2277-2278
 302. 2278-2279
 303. 2279-2280
 304. 2280-2281
 305. 2281-2282
 306. 2282-2283
 307. 2283-2284
 308. 2284-2285
 309. 2285-2286
 310. 2286-2287
 311. 2287-2288
 312. 2288-2289
 313. 2289-2290
 314. 2290-2291
 315. 2291-2292
 316. 2292-2293
 317. 2293-2294
 318. 2294-2295
 319. 2295-2296
 320. 2296-2297
 321. 2297-2298
 322. 2298-2299
 323. 2299-2300
 324. 2300-2301
 325. 2301-2302
 326. 2302-2303
 327. 2303-2304
 328. 2304-2305
 329. 2305-2306
 330. 2306-2307
 331. 2307-2308
 332. 2308-2309
 333. 2309-2310
 334. 2310-2311
 335. 2311-2312
 336. 2312-2313
 337. 2313-2314
 338. 2314-2315
 339. 2315-2316
 340. 2316-2317
 341. 2317-2318
 342. 2318-2319
 343. 2319-2320
 344. 2320-2321
 345. 2321-2322
 346. 2322-2323
 347. 2323-2324
 348. 2324-2325
 349. 2325-2326
 350. 2326-2327
 351. 2327-2328
 352. 2328-2329
 353. 2329-2330
 354. 2330-2331
 355. 2331-2332
 356. 2332-2333
 357. 2333-2334
 358. 2334-2335
 359. 2335-2336
 360. 2336-2337
 361. 2337-2338
 362. 2338-2339
 363. 2339-2340
 364. 2340-2341
 365. 2341-2342
 366. 2342-2343
 367. 2343-2344
 368. 2344-2345
 369. 2345-2346
 370. 2346-2347
 371. 2347-2348
 372. 2348-2349
 373. 2349-2350
 374. 2350-2351
 375. 2351-2352
 376. 2352-2353
 377. 2353-2354
 378. 2354-2355
 379. 2355-2356
 380. 2356-2357
 381. 2357-2358
 382. 2358-2359
 383. 2359-2360
 384. 2360-2361
 385. 2361-2362
 386. 2362-2363
 387. 2363-2364
 388. 2364-2365
 389. 2365-2366
 390. 2366-2367
 391. 2367-2368
 392. 2368-2369
 393. 2369-2370
 394. 2370-2371
 395. 2371-2372
 396. 2372-2373
 397. 2373-2374
 398. 2374-2375
 399. 2375-2376
 400. 2376-2377
 401. 2377-2378
 402. 2378-2379
 403. 2379-2380
 404. 2380-2381
 405. 2381-2382
 406. 2382-2383
 407. 2383-2384
 408. 2384-2385
 409. 2385-2386
 410. 2386-2387
 411. 2387-2388
 412. 2388-2389
 413. 2389-2390
 414. 2390-2391
 415. 2391-2392
 416. 2392-2393
 417. 2393-2394
 418. 2394-2395
 419. 2395-2396
 420. 2396-2397
 421. 2397-2398
 422. 2398-2399
 423. 2399-2400
 424. 2400-2401
 425. 2401-2402
 426. 2402-2403
 427. 2403-2404
 428. 2404-2405
 429. 2405-2406
 430. 2406-2407
 431. 2407-2408
 432. 2408-2409
 433. 2409-2410
 434. 2410-2411
 435. 2411-2412
 436. 2412-2413
 437. 2413-2414
 438. 2414-2415
 439. 2415-2416
 440. 2416-2417
 441. 2417-2418
 442. 2418-2419
 443. 2419-2420
 444. 2420-2421
 445. 2421-2422
 446. 2422-2423
 447. 2423-2424
 448. 2424-2425
 449. 2425-2426
 450. 2426-2427
 451. 2427-2428
 452. 2428-2429
 453. 2429-2430
 454. 2430-2431
 455. 2431-2432
 456. 2432-2433
 457. 2433-2434
 458. 2434-2435
 459. 2435-2436
 460. 2436-2437
 461. 2437-2438
 462. 2438-2439
 463. 2439-2440
 464. 2440-2441
 465. 2441-2442
 466. 2442-2443
 467. 2443-2444
 468. 2444-2445
 469. 2445-2446
 470. 2446-2447
 471. 2447-2448
 472. 2448-2449
 473. 2449-2450
 474. 2450-2451
 475. 2451-2452
 476. 2452-2453
 477. 2453-2454
 478. 2454-2455
 479. 2455-2456
 480. 2456-2457
 481. 2457-2458
 482. 2458-2459
 483. 2459-2460
 484. 2460-2461
 485. 2461-2462
 486. 2462-2463
 487. 2463-2464
 488. 2464-2465
 489. 2465-2466
 490. 2466-2467
 491. 2467-2468
 492. 2468-2469
 493. 2469-2470
 494. 2470-2471
 495. 2471-2472
 496. 2472-2473
 497. 2473-2474
 498. 2474-2475
 499. 2475-2476
 500. 2476-2477
 501. 2477-2478
 502. 2478-2479
 503. 2479-2480
 504. 2480-2481
 505. 2481-2482
 506. 2482-2483
 507. 2483-2484
 508. 2484-2485
 509. 2485-2486
 510. 2486-2487
 511. 2487-2488
 512. 2488-2489
 513. 2489-2490
 514. 2490-2491
 515. 2491-2492
 516. 2492-2493
 517. 2493-2494
 518. 2494-2495
 519. 2495-2496
 520. 2496-2497
 521. 2497-2498
 522. 2498-2499
 523. 2499-2500
 524. 2500-2501
 525. 2501-2502
 526. 2502-2503
 527. 2503-2504
 528. 2504-2505
 529. 2505-2506
 530. 2506-2507
 531. 2507-2508
 532. 2508-2509
 533. 2509-2510
 534. 2510-2511
 535. 2511-2512
 536. 2512-2513
 537. 2513-2514
 538. 2514-2515
 539. 2515-2516
 540. 2516-2517
 541. 2517-2518
 542. 2518-2519
 543. 2519-2520
 544. 2520-2521
 545. 2521-2522
 546. 2522-2523
 547. 2523-2524
 548. 2524-2525
 549. 2525-2526
 550. 2526-2527
 551. 2527-2528
 552. 2528-2529
 553. 2529-2530
 554. 2530-2531
 555. 2531-2532
 556. 2532-2533
 557. 2533-2534
 558. 2534-2535
 559. 2535-2536
 560. 2536-2537
 561. 2537-2538
 562. 2538-2539
 563. 2539-2540
 564. 2540-2541
 565. 2541-2542
 566. 2542-2543
 567. 2543-2544
 568. 2544-2545
 569. 2545-2546
 570. 2546-2547
 571. 2547-2548
 572. 2548-2549
 573. 2549-2550
 574. 2550-2551
 575. 2551-2552
 576. 2552-2553
 577. 2553-2554
 578. 2554-2555
 579. 2555-2556
 580. 2556-2557
 581. 2557-2558
 582. 2558-2559
 583. 2559-2560
 584. 2560-2561
 585. 2561-2562
 586. 2562-2563
 587. 2563-2564
 588. 2564-2565
 589. 2565-2566
 590. 2566-2567
 591. 2567-2568
 592. 2568-2569
 593. 2569-2570
 594. 2570-2571
 595. 2571-2572
 596. 2572-2573
 597. 2573-2574
 598. 2574-2575
 599. 2575-2576
 600. 2576-2577
 601. 2577-2578
 602. 2578-2579
 603. 2579-2580
 604. 2580-2581
 605. 2581-2582
 606. 2582-2583
 607. 2583-2584
 608. 2584-2585
 609. 2585-2586
 610. 2586-2587
 611. 2587-2588
 612. 2588-2589
 613. 2589-2590
 614. 2590-2591
 615. 2591-2592
 616. 2592-2593
 617. 2593-2594
 618. 2594-2595
 619. 2595-2596
 620. 2596-2597
 621. 2597-2598
 622. 2598-2599
 623. 2599-2600
 624. 2600-2601
 625. 2601-2602
 626. 2602-2603
 627. 2603-2604
 628. 2604-2605
 629. 2605-2606
 630. 2606-2607
 631. 2607-2608
 632. 2608-2609
 633. 2609-2610
 634. 2610-2611
 635. 2611-2612
 636. 2612-2613
 637. 2613-2614
 638. 2614-2615
 639. 2615-2616
 640. 2616-2617
 641. 2617-2618
 642. 2618-2619
 643. 2619-2620
 644. 2620-2621
 645. 2621-2622
 646. 2622-2623
 647. 2623-2624
 648. 2624-2625
 649. 2625-2626
 650. 2626-2627
 651. 2627-2628
 652. 2628-2629
 653. 2629-2630
 654. 26

There is a general feeling that ratings by one's peers, the so called "buddy ratings", are more accurate than supervisors' ratings. Army psychologists used "buddy ratings" to standardize the Army Forced Choice rating form⁷¹ and subsequently, Wherry and Fryer reported finding clearcut superiority in "buddy ratings".⁷²

An Army study reported by Bittner showed that 78% of a group of 1800 Army officers preferred not to be rated by officers of equivalent rank while 77% of these same 1800 officers preferred not to be rated by their juniors.⁷³ If these attitudes are typical, it seems likely that rating by one's superiors will continue as the usual practice and there remains only the problem of selecting as the rater, the superior with the most adequate knowledge of the ratee.

How often to rate. Although there has been no experimental evidence obtained to answer this question, authorities writing in the field are generally in accord in their recommendations. Halsey⁷⁴ and Probst⁷⁵ for example, recommended ratings twice each year, as routine, with more frequent ratings in special situations such as a rapidly expanding or shrinking organization and new or probationary employees. Probst suggested in addition, that ratings be performed on employees about to be transferred. Both men oppose the practice of allowing an excessive period to elapse between ratings, warning of the danger that the raters' memories will be unequal to the test which will lead them to give undue weight

to the more recent performance of the ratees.

Rating the rater. It has been suggested by some that poor raters be identified and relieved of the responsibility. A capacity for correctly judging subordinates is certainly a desirable attribute of one in authority, and in the light of that consideration, the performance of a rater may be seen as one measure of his success as a supervisor. Further, ratings of raters would be an aid in rater training just as ratings of employees are helpful in employee training.

Probst recognized the need for locating the incompetent raters and pointed out how his rating system will facilitate this.⁷⁶ Yoder discussed "rating the raters" in connection with his plan for correcting ratings to a comparable basis⁷⁷ and White proposed statistical analysis of ratings in order that, "... inexpert or careless rating officials can be confronted with the sometimes foolish consequences of their lack of care."⁷⁸

TRAINING OF RATERS

The foregoing discussion has been concerned largely with technical improvements and design of rating devices and procedures as they relate to the struggle for increased reliability and validity. Valuable as these elements are, most authorities agree that the most significant factor in a successful rating plan is an adequate rater training program. Turning to the writings of White one finds the following passage:⁷⁹

to the more recent performance of the project.

Rating the factor. It has been suggested by some that

poor factors be identified and relieved of the responsibility.

A capacity for correctly judging responsibility is certainly a

desirable attribute of one in authority, and in the light of

that consideration, the performance of a factor may be used

as one measure of his success as a supervisor. However, the

large of errors which he is in better position to prevent than

that of employees and which he employs frequently.

These considerations are used for the purpose of the

present factor and pointed out by the writer of this paper.

It is also noted that the factor "Quality of Work" is

connected with the factor "Quality of Work" in a comparison

of the factor "Quality of Work" and the factor "Quality of Work"

in order that the factor "Quality of Work" may be

be compared with the factor "Quality of Work" in the

factor of work.

These factors are

The following factors are used in the present study:

With technical improvements and the use of modern tools and

procedures, as well as the use of modern tools and

methods, the factor "Quality of Work" may be

be compared with the factor "Quality of Work" in the

factor of work.

The factor "Quality of Work" is used in the present study

as a factor of work.

It is indeed now generally held that the form of the rating instrument is less important than thorough training of the rating officers in the art of evaluating subordinates.

Bittner,⁸⁰ Knowles,⁸¹ and Tiffin,⁸² to mention only a few others, voiced similar views, while Driver⁸³ even went so far as to advocate the retraining of raters at intervals.

Effect of training measured. In 1945 the research section of the Army Adjutant General's Office conducted a carefully controlled experiment to determine the results of rater training. The population of officers, who were to act as raters, was separated into higher echelon and lower echelon categories and organized into control and experimental groups. After all subjects had performed sample ratings (which were correlated against certain criteria to determine validity), the experimental groups were given a two hour course of instruction and practice in rating. Upon completion of this training, all the members of the control and experimental groups rerated the individuals they had evaluated in the preliminary operation. Correlations between rating validities showed a slight and consistent, though not statistically significant, gain for the higher echelon officers but showed no consistent improvement for the lower echelon officers.⁸⁴

The experimenters commented, when discussing the small improvements obtained, that their subjects were all experienced raters who could not be classified as untrained, and conse-

It is indeed now generally held that the first of the main factors in the training of the officer is the art of evaluation.

Butcher, 80 Knowles, 81 and Willing, 82 are of the opinion that a low

others, voiced similar ideas. The writer 83 even went as

far as to suggest the retention of the term of evaluation.

Effect of Training

Section of the first Adjutant General's Office contained a

carefully controlled experiment to determine the results of

retraining. The population of officers, who were to be

as before, was separated into three sections and lower scores

low scores were and organized in a control and experimental

groups. After all subjects had performed under similar

(which were correlated a slight increase in scores was observed

validity, the experimental group was found to have

course of instruction and practice. The results of the

of this training, all the members of the control group

mental scores were found to be significantly lower than

the results of the experimental group. The results of the

results showed a significant increase in scores for the

control group, this is in line with the results of the

results of the experimental group. The results of the

over, 84

to the results of the experimental group, the results of the

results of the experimental group, the results of the

results of the experimental group, the results of the

quently, the effect of training could not be expected to appear as marked as if administered to untrained raters. To the writer it seems that the relatively small effect of training experienced raters seen in this study would tend to weaken Driver's recommendation that provisions be made for retraining raters at intervals.⁸⁵

Effect of certain rater qualities. A more recent study by Stockford and Bissell revealed that training in rating reduced the susceptibility of raters to bias and to halo and increased the reliability of their ratings, although it had little effect on the rater's leniency. Other interesting data were obtained when several qualities of the raters were measured by standard psychological tests and correlated with various aspects of rating performance. The higher the rater's mental maturity, the more reliable, less lenient, and less biased will be his ratings. Moreover, as one might expect, the more intelligent raters profit more from the rater training. Lastly, the higher the rater's Persuasive Component and his Administrative-Supervisory Interest factor, as determined by the Kuder Preference Record, the less lenient and biased will be the ratings made by him.⁸⁶

It appears then that the logical assumption that rater training is a valuable adjunct to a rating program is borne out by test. Therefore consideration of what material should be included in a rater training program is in order.

Substance of Rater Training Program

The decision as to what should be taught rests on the determination of what are the most common rater errors, since it is toward the correction of these that the program should be aimed. Because the most frequently occurring raters' errors have been enumerated and discussed at some length in the preceding chapter, they will not be detailed here. Instead the discussion will be limited to the training program proper.

The purpose of rating. The most suitable starting point in the rater training program is emphasis on the role of the rating device as a measuring instrument. In this connection, the objectives of rating, as discussed on pages 3 and 4, should be made clear to the raters. The concept of the rating as a means of personal reward or punishment should be eliminated. The value to the Navy, and the Nation, which will accrue from a well designed and properly used rating system should be stressed. Conversely, the harm to the Navy, and the Nation, which will result from a rating system which has been invalidated by its use as a reward or incentive should be impressed upon the raters.

Theory of normal distribution. The theory of the normal distribution and its relation to individual differences should be explained. Examples of actual studies which demonstrate its truth should be cited. The absurdity of the feeling that Naval officers must be "above average" to be of value to the Naval Service should be shown. If these points are

clearly and convincingly made, significant progress towards enhanced reliability and validity will have been achieved.

Psychological influences. The more important psychological phenomena which influence the raters should be identified, described, and discussed. The raters should be informed of the effects of these forces and warned of their subtle nature in order that they may be on guard to minimize their consequences.

Meaning of terms. Explanation and discussion of the meanings of the terms used on the rating form are important. The instructor should make frequent use of examples and anecdotes to clarify his explanations. Having the student raters take turns at composing descriptions of fictitious, or actual situations which illustrate the meanings of the terms will be especially beneficial. Successful teaching of this section will do much to eliminate the difficulty of differing standards of comparison as well as minimizing errors due to misunderstanding of terms.

Practice ratings. Learning by doing is conceded to be the most effective type of learning when the amount of learned material retained and the ability to apply this learning are the criteria. Consequently, no rater training program would be complete without practice rating. A suggested procedure is to require the student raters actually to perform ratings on real persons or on the basis of anecdotal records. These anecdotal records may be of real or imaginary persons but

should be so selected that they bring out the many fine points of the rating problem.

Comparisons and correlations of the ratings on the same persons would show their reliability or lack thereof. Subsequent discussion and further practice would bring improved rating performance.

Practice rating would have the added beneficial effects of:

- a. Familiarizing the raters with the forms and procedures.
- b. Standardization of the meanings of the terms used on the forms.
- c. Elimination of or reduction of differences in standards of comparison among the raters.

SUMMARY OF WHAT IS RATING DEVICES AND PROCEDURES

In the preceding sections of this chapter an effort has been made to describe and evaluate the most common types of rating devices and procedures together with descriptions of the more important relevant expert opinion and experimental evidence. From this study there emerges a body of principles of good service rating design and administration. The remainder of the chapter will be devoted to the compilation of this information.

Principles Applicable to Devices

Bias and objectivity. The rating device should embody features which aid in minimizing the rater's bias and improving

should be no subject that they bring out the many fine points of the total problem.

Comparisons and correlations of the ratings on the same persons would show their reliability as fact checkers. Present discussion and further practice would also be covered. Rating performance.

Practice rating, would have the other mentioned effects

of:

a. Familiarizing and setting with the forms and procedures.

b. Standardization of the meanings of the terms

used on the forms.

c. Elimination of or reduction of differences in standards of comparison among the raters.

THESE EFFECTS WOULD BE

In the preceding sections of this chapter an effort has been made to describe and explain the various factors which enter into the rating process and to show how they may be controlled. Some important factors have been explained and described. From this study it was found that the rating process is a very complex one and that the rating process is a very complex one and that the rating process is a very complex one. The results of the study will be reported in the following sections.

THESE EFFECTS WOULD BE

his objectivity. Further, it must eliminate insofar as possible, errors due to misunderstanding of terms and to differences among raters in standards of comparison. These objectives are best served by the forced choice type of rating. However, if the expense of preparation and maintenance of the forced choice form is prohibitive; or if it meets objection for some other reason, both the Probst check list type of form and the graphic rating scale are possibilities. If the graphic scale is chosen, it should be of the descriptive rather than the evaluational type and consideration should be given to the possibility of requiring substantiating statements with the ratings. The various other rating processes, such as the ranking and the paired comparison methods, will be eliminated from further discussion except as one element of a combination form, to be discussed in a moment.

Halo. The construction of the rating device should provide characteristics which will aid the rater to avoid the halo error. Here again the forced choice form is pre-eminent. Other possibilities are the Probst scale and the graphic scale with the favorable ends of successive trait scales alternated irregularly from right to left and back again. Other features include unequal graduations of successive trait scales or elimination of graduations altogether, leaving only the labels.

Normal distribution. An attempt should be made to secure a reasonably close approximation of a normal distribu-

his objectivity. Further, it must eliminate further an object-
 die, error due to misinterpretation of results due to different-
 ces among raters in standards of comparison. These objectives
 are best served by the forced choice type of rating. However,

if the expense of preparation and maintenance of the forced
 choice form is prohibitive, or if it is made objectionable for some
 other reason, then the forced choice type of form and the
 graphic rating scale are satisfactory. If the graphic scale

is chosen, it should be of the horizontal rather than the
vertical type and the direction should be given so the
 possibility of reversing unexplained statements with the

rating. The various other rating procedures, such as the
 ranking and the paired comparison methods, will be eliminated
 from further discussion except as one element of a combination
 form, to be discussed later.

Self. The use of self of the rating scale is an
 provision of a representative rating and all the steps to avoid
 the bias error. Here again the forced choice form is pre-
 ferred. When possible, use the forced choice scale and the
 graphic scale with the forced choice scale of unexplained results
 scales eliminated. The forced choice scale is left out and
 again. Other features include unexplained statements of unex-
 pected results or statements of resistance to change.

For the purpose of the rating scale, the forced choice
 form is preferred. It is a combination of the forced choice
 and the graphic scale.

tion of rating scores. With the exception of the forced distribution rating (which has been declared unsuitable for Navy use), the Probst scale seems to be the most successful at attaining this objective with the forced choice rating as second best. Improvement of the graphic form in this respect is attempted by dividing its scales into columns, as described earlier, and supplying hortatory instructions that the raters be guided by the columns when rating.

Statistical methods of correcting ratings may be employed. The standard score (z score) technique previously discussed will accurately convert rating scores to comparable quantities on a normal distribution. Alternative methods, one a mathematical process using average deviations rather than standard deviations, and the other a graphic process, are suggested by Yoder.⁸⁸

Weighting of traits. There should be provision of suitable weighting of traits in arriving at the overall score and precautions should be set up against uncontrolled weighting. Such precautions are best provided by the standard score (z score) method or some approximation of it.

Display of qualities. The rating should be in such a form that both the ratee and management can see what are his strong points and his weaknesses. If this condition prevails, both the ratee and management can take intelligent steps to correct the weaknesses. In addition, management may wish to institute procedures which will lead to selection of superior

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is assigned to the case. The investigator must first identify the problem and then determine the scope of the problem. This is done by the investigator who is assigned to the case. The investigator must first identify the problem and then determine the scope of the problem.

[illegible][illegible]

personnel in the future.

This requirement that there be an intelligible display of the rater's qualities is best met by the graphic rating scale, though the Probst scale is a possibility. The forced choice form is poorest in this respect since by its very design the true nature of the rating is concealed from rater and ratee.

Combinations. It is common with military rating forms to include two or more methods of rating in the same rating instrument. On the basis of custom and logic, experimental evidence pro or con not being available, the practice should be continued.

Traits to be excluded. The rating scale's raison d'être is the fact that certain qualities of men are measurable only by judgement. If a better method of measuring these certain qualities existed it would be only wise to dispense with rating scales and use the better method. Conversely, it is wise measurement policy to exclude from rating scales those qualities which can be measured better by more objective means. Included in this category are such entities as "health", "intelligence", "accuracy", "speed", "volume of production", and "attendance". While "personality" has defeated all attempts at accurate objective measurement, it is too large and all-inclusive a quality to be entrusted to the limited capabilities of rating scales.

personnel in the room.

This regulation was stated as an intelligence test-
play of the writer's classified in the matter of the specific test.
The same, though the specific test is a possibility. The
forced choice form is, of course, in this respect since by the
very design the same test of the writer is conducted from
rater and writer.

Classification. In the common case, literary rating forms
to include two or more measures of rating in the same writing
instrument. In the case of an instrument, experimental
evidence has shown that the writer's classification should
be confirmed.

Rating as an analysis. The writer's analysis is a
device is the fact that certain divisions of the writer's analysis
able only to the writer. In the writer's analysis, the writer
these certain divisions of the writer's analysis are able to the
person with the writer's analysis. The writer's analysis is a device
ly, it is a writer's analysis. The writer's analysis is a device
these divisions of the writer's analysis. The writer's analysis is a device
writer's analysis is a device. The writer's analysis is a device
"localization," "extension," "extension," "extension," "extension,"
and "extension." The writer's analysis is a device. The writer's analysis is a device
at a writer's analysis. The writer's analysis is a device. The writer's analysis is a device
analysis is a device. The writer's analysis is a device. The writer's analysis is a device.

Administrability. Rating instruments and procedures should not require excessive time and energy to employ and administer. This requires that the forms be of a convenient size with easily readable printing, and that they not require an excessive number of operations. Scoring aids such as templates and stencils, or better still, machine scoring, should be provided. Finally, the data produced by the device should be readily obtainable from it in an easily used form.

Principles Applicable to Procedure

Conference with ratee. Definite provision for discussing the rating with the ratee should be included in every rating program. The ratee should be shown his detailed rating, complimented on his strong points, and sympathetically and constructively counselled on means of overcoming his weaknesses.

Who should rate. The consensus is that the superior who has the most intimate knowledge of the ratee is the man who should rate him. Where more than one superior is available with adequate knowledge, the rating procedure should be designed to take full advantage of the superiority of several judges over one. Either a conference rating or the average of several individual ratings may be used, but the latter is the more accurate.

How often to rate. Informed opinion suggests that semiannual ratings are sufficiently frequent except when the organization is expanding or contracting rapidly, at which time a shorter period, usually three months, between ratings

is recommended. In addition, it is believed that new members of the organization should be rated more frequently, because, (1) they are likely to be changing more rapidly as they learn their duties than are the experienced employees and, (2) more frequent ratings will provide a sounder basis of evaluation during and at the end of the probationary period.

Review of ratings. Where practicable, advantage should be taken of the tendency of raters to give more thought and care to their rating tasks when they know that they may have to justify their judgements to their superiors. This is best done by some procedure for formal review and endorsement of ratings.

Training of raters. A rater training program should be maintained which not only acquaints the rater with the mechanics of the use of the form, but impart some understanding of the more important theories underlying rating.

Rating raters. Just as employee rating is a tool for employee improvement, so ratings of the raters (by the authorities in the central personnel agency and with adequate liaison with the rater training program) will be a useful tool in improvement of the raters.

PART II

Chapter 3

CRITERIA

Importance of Criteria

Measurements are merely comparisons. It is impossible to conceive of a measurement that is not a comparison for such would be meaningless. In the physical sciences comparisons can be made between the physical entity being measured and a measuring instrument, which in its design and construction has already been compared with a standard, which in turn has been compared with a more refined standard and so on, back to the fundamental standard, the criterion. Measurement in the social sciences requires standards also. Here too, one must have something with which to compare his measuring instrument (a criterion) in order to determine the accuracy of the instrument.

Inadequacy of Available Criteria

In general, criteria available to social scientists have not been as reliable and valid as those at the disposal of the physical scientists. This has been particularly true in the field of measurement of executive ability, which is the area in which this study of officer efficiency evaluation is concerned.

Criteria of reliability. Normally, the reliability coefficient of a rating device will be determined by correlating

Part II Chapter 3

Part II

Importance of the State

Measurements are made of the state. It is important

to conceive of a measurement that is not a measurement of

such world as the physical. In the physical sciences, objects

are not to be made versus the physical world, which is measured

and a resulting instrument, which is the basis of the instrument-

tion has already been known, with a measurement, which is the

has been known, which is the basis of the instrument-

to the instrumented instrument, the instrument, instrument in

the social sciences, which is the basis of the instrument-

must have something with which to measure, which is the

statement (a statement) in order to measure the instrument-

the instrument.

Importance of the State

In general, objects are measured, which is the basis of the

have not been measured, which is the basis of the instrument-

of the physical sciences, which is the basis of the instrument-

in the physical sciences, which is the basis of the instrument-

the state, which is the basis of the instrument-

is measured.

the state, which is the basis of the instrument-

the state, which is the basis of the instrument-

the results of one of the following alternatives:

Alter- native:	Ratings made by.	Number of ratings.	Forms used.
1	Both by the same rater in each in- dividual case.	Two	Two different but comparable.
2	By two different raters.	Two	Same form for both ratings.
3	Same raters.	Two spaced some time apart.	Same.

Typical coefficients of reliability. Yoder has set $r = +.75$ as the minimum reliability coefficient which should be tolerated.¹ By performing the following calculation of forecasting efficiency:²

$$100(1 - \sqrt{1 - r^2}) = 100(1 - \sqrt{1 - (.75)^2}) = 33.9\%$$

we see that Yoder's limit requires that the rating device be reliable only to the extent that the likelihood of two consecutive ratings of the same individual being identical is 33.9% better than chance. That is to say, Yoder's limit requires that the reliability be such that one has 33.9 chances in one hundred of predicting what a second rating would be. Although rating designers have enjoyed some success in exceeding this minimum, none has seen fit to propose raising it.

Probst reported finding a reliability, in one case of ratings of 475 employees, of $+ .72$ and added that this was typical of the experience with his device.³ Other investigators, to mention only a few, have reported reliability coefficients from their studies as follows:

Stockford and Bissell ⁴	+.798
Richardson and Fuder ⁵	+.85 to +.90 (N = 330)
	and
	+.83 (N = 305)
Lawshe, Kephart, and McCormick ⁶	+.83

One of the highest coefficients of reliability for a service rating likely to be found is the $r = +.92$ reported by Tiffin.⁷ It is significant that the system which yielded this high figure employed "systematic corrections" to equalize "rater tendencies" and independent ratings of each ratee by several raters. Only the designers of the U. S. Air Force officer rating system, see Chapter 4 of PART II, report a higher coefficient.

Criteria of validity. The following passage from a recent book by Lawshe describes the situation in this area succinctly and well:⁸

...A survey of the literature yields little evidence of successful validity studies in the executive brackets. This is no doubt due in part to the extreme difficulty attending the setting up of adequate criterion groups at the executive level, ...

This problem of absence of criteria arises from the very condition which makes it necessary to depend on mere judgement in this important field of measurement, i.e., from lack of a better method of measuring many of the aspects of executive performance. To secure a criterion, one must in some way, identify and isolate a standard of executive performance. He must select a definite sample of executive per-

formance, that is, measure a finite quantity of it. Except when measuring certain qualities such as intelligence, aptitudes, and health, judgement is the only recourse in accomplishing this appraisalment. The result is comparable to the outcome of an attempt to test the accuracy as to length of a "one foot" ruler which you have made, by comparing it with a friend's estimate of how long "one foot" is.

The frustrating condition described in the preceding paragraph has led Cronbach to the hopeful remark quoted earlier that, "Observations by impartial observers are generally accepted as valid if they can be made reliable."⁹ Too often this is exactly the situation which prevails. But, in the writer's opinion, it is an unsound position to adopt. It is quite true that validity depends on reliability, that there can be no validity unless there is reliability. The mathematical statement of this relation is shown on page 49. But it is not true that because the measuring instrument is reliable, it is therefore a valid measure for the particular quality being considered at the moment. Again we may look to the realm of physical measurement for an analogy. If a reliable measure is also necessarily valid, then a ruler will yield valid linear measurements even if through some inadvertence it had been made actually too short. Obviously, this cannot be, for though readings obtained with it were uniform, they would be nonetheless incorrect.

Typical criteria of validity. Many investigators in this field have relied simply on face validity and reliability, as described under the graphic rating scale in the preceding chapter. Obviously no coefficient of validity is available from such studies since the reliability coefficient cannot be substituted for it. Those experimenters who have attempted validation proceedings have utilized, in most cases, some other form of rating as the criterion. A "validity coefficient" of a sort is produced by this process but its exact value may be open to some doubt.

Numerous examples of the validation of one rating by the use of another as a criterion may be found in the literature of rating. Consider Probst's recent book on the subject.¹⁰ He described his criteria as "supervisors' judgments" and reported correlations between his rating device and these as validity coefficients. A few of these are shown in the following table.

Page	:	Validity	:	Number of cases	:	Criterion
78	:	+ .66	:	25	:	Ratings by super-
	:		:		:	intendent.
78	:	+ .84	:	32	:	Average of judge-
	:		:		:	ments of 3 super-
	:		:		:	visors.
79	:	+ .77	:	22	:	Average of judge-
	:		:		:	ments of department
	:		:		:	head and immediate
	:		:		:	supervisor.

Typical criteria of validity. Many investigators in

this field have relied mainly on face validity and reliability, as described earlier and validity in the present chapter. However, it is difficult to establish validity from such evidence alone and the reliability coefficient cannot be calculated. In fact, these coefficients are based on attempts at validation procedures that are flawed. In fact, some other form of testing is the criterion. A validity coefficient of a test is a measure of how closely the test scores relate to the scores on the criterion test.

However, examples of the calculation of one rating by the use of another as a criterion may be found in the literature of rating. Commonly, a subject's rating on the subject is described as a criterion or "criterion" judge. The subject's rating is compared to the criterion rating and there is a validity coefficient. The use of these ratings in the following table:

Rating	Validity	Reliability	Criterion
1	1.00	1.00	1.00
2	1.00	1.00	1.00
3	1.00	1.00	1.00
4	1.00	1.00	1.00
5	1.00	1.00	1.00
6	1.00	1.00	1.00
7	1.00	1.00	1.00
8	1.00	1.00	1.00
9	1.00	1.00	1.00
10	1.00	1.00	1.00

Another and less extensive study of validity using supervisors' judgements as criteria was reported by Knauft.¹¹ He obtained validity coefficients for two separate rating devices of $+0.87$ and $+0.83$ respectively.

Ratings by peers as criteria. The search for validity criteria has led to use of the sociometric method.¹² This is the "buddy rating" procedure or the "nominating technique" so often mentioned in current writings on merit rating. It is a process in which the ratees rate each other anonymously and, as used by rating scale designers, may result in orders of rank or a complete rating of each ratee on a list of traits. Correlation between the result of ratings on the new rating device and the results of the buddy rating will produce a validity coefficient.

Ratings by peers have been stoutly defended by Cherry and Fryer.¹³ Dr. Cherry is one of the psychologists who participated actively in the work of design, construction, and standardization of the Army Forces Office merit device, and it was in this work that buddy ratings were extensively used.¹⁴

The study reported by Cherry and Fryer¹⁵ was made at Army Signal Corps Officer Candidate School at Fort Monmouth, New Jersey in 1943 and involved two separate classes, one containing eighty-two men, the other only fifty-two. Both buddy rankings (nominations) and buddy ratings were obtained and compared with ratings by junior officers and senior officers on the school staff. Correlations were also obtained between the

[illegible]

buddy rankings and ratings and the results of certain selection devices, namely, an officer candidate (high level intelligence measure) test, several personality measures, and ratings by former superiors. In addition, it was determined by factor analysis that all ratings were loaded with a heavy leadership factor.

The results led the authors to conclude that:

(a) "Buddy ratings appear to be the purest measure of leadership."

(b) Buddy nominations (ranking) "are equally good measures of leadership."

(c) "Nominations by class appear to better be measures of the leadership factor than any other variable."

(d) Buddy nominations correlated more highly with all the selection devices, except intelligence, than did academic grades.

(e) Buddy nominations and ratings both measure accurately after a shorter period of observation than ratings by supervisors. That is, one's peers form accurate judgements of one more quickly than do one's superiors.

An Army study of buddy rankings in Officer Candidate School at Fort Benning, Georgia yielded a split-half reliability coefficient of +.90 for a class which had been in being for five weeks and +.72 for a class of three weeks.¹⁶ Correlations between the buddy rankings and the platoon officers'

body rankings and results and the results of certain subjects for devices, namely, an officer candidate (high level) initially (some measure) best, several personally measured, and results by former superiors. In addition, it was determined by factor analysis that all ratings were related with a factor leadership factor.

The results led the authors to conclude that:

(a) "body ranking" appears to be the poorest measure of leadership."

(b) "body ranking" (body) "and equally good measure of leadership."

(c) "Performance of other aspects is better to measure of the leadership factor than any other variable."

(d) "Body ranking" appears to be the poorest measure of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(e) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(f) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(g) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(h) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(i) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

superior.

In fact, the results of the study are as follows:

Results of the study are as follows: (a) "body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(b) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(c) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

(d) "Body ranking" and "body ranking" are equally good measures of leadership, except intelligence, with all the selection devices, except intelligence, that are available."

rankings were as follows:

(a) For the five weeks class +.70.

(b) For the three weeks class +.65.

These figures represent rather close agreement and perhaps may be explained by the fact that the process required that the raters rank only the five best and the five poorest man in each class. This eliminated the middle group where greatest disagreement as to the correct order is likely to occur.

Another defender of ratings by peers is Bittner.¹⁷ He argued that ratings by peers are likely to be more accurate because:

(a) Men live and work much closer to their peers than to their superiors and thus have a better opportunity to observe each other's performance.

(b) Men tend to show only their best sides to their superiors whereas one's peers have an opportunity to observe typical performance.

(c) The investigator can employ the principle of obtaining multiple judgments on the ratee more effectively if he uses buddy ratings.

Statements (b) and (c) apply equally well to ratings by one's juniors though there may be some question as to whether one's subordinates are able to judge the value of typical performance as well as one's peers can judge it.

Ratings by peers instead of superiors. The superiority of buddy ratings demonstrated by Therry and Fryer and

rankings were as follows:

- (a) For the five week class - 7.70.
- (b) For the three week class - 7.00.

These figures represent rather close agreement and perhaps may be explained by the fact that the process required that the raters rank only one live and one dead rat in each class. This eliminates the possibility of a rat being ranked in both classes where there is disagreement as to the correct order, is likely to occur. Another method of ranking is that of ranking in alternation. If he argued that ranking in pairs was likely to be more accurate because:

(a) men live and work much closer to their peers than to their superiors and thus have a better opportunity to observe each other's performance.

(b) men tend to rank only their close aides as their superiors whereas one's rank is an opportunity to observe typical performance.

(c) The investigator can employ the principle of obtaining multiple judgments as for rating more accurately if he uses rating ratings.

Statements (b) and (c) would usually apply to ratings of one's subordinates, where an upward position as to superior's rating. Since ratings are made on a basis of typical performance as well as one's peers - 7.70 and 7.00.

Rankings of peers (a) and (b) are as follows:

For a rating rating, the investigator is likely to find that

hypothesized by Bittner raises the question as to why we should not dispense with ratings by superiors and use instead ratings by peers exclusively. Bittner answered this question in favor of retaining the custom of ratings by superiors when he wrote that, as was mentioned in the preceding chapter, 78% of the 1800 Army officers polled on the subject preferred not to be rated by their equals.¹⁸

The reasons given by these officers were not reported but one may speculate as to their nature. It seems probable that, if an organization obtained buddy ratings as a matter of routine, the consequent feeling of being continuously watched and judged by friends and fellow workers would generate undesirable tensions among the personnel of the organization. These tensions might easily prove to be so detrimental to morale and teamwork that the ensuing loss of efficiency would outweigh any advantage gained from the superiority of the buddy rating as a rating method.

Future possibilities. The complexity of the activities and duties of the executive has been suggested and the necessity for measuring executive performance largely by judgement has been stated and deplored. What then is the solution? Is there any likelihood that anything can be done to aid significantly in the task of judgement? Is there any possibility of a superior substitute for judgement?

One possibility of a strictly Naval application is suggested by information in a letter from Dr. Everett G. Brun-

hypothesized of. It is not clear that the results should not be taken as evidence of a general effect of rating by people. It is not clear that the results of the 1963 Army Officers' School on the subject referred to be taken as such.

The reasons given by these officers were not reported but one may speculate as to their nature. It seems probable that, if an individual's rating is high, it is a matter of rating, not of rating. It is not clear that the results of the 1963 Army Officers' School on the subject referred to be taken as such.

Rating of the rating is a matter of rating, not of rating. It is not clear that the results of the 1963 Army Officers' School on the subject referred to be taken as such.

days of the Bureau of Naval Personnel recently received by the writer.¹⁹ It is stated in this communication that data taken from the readily quantifiable items of all the fitness reports of one Naval Academy class of about thirty years experience as commissioned Naval officers show, that the Navy Fitness Report has "fairly good validity" in terms of predicting success before the Navy selection boards.²⁰ In addition, the data show that reports made on officers when they are holding the relatively junior ranks of Lieutenant (junior grade) or Lieutenant, are more accurately predictive of the subsequent attainment of flag rank²¹ than are the fitness reports received while the officers are in the higher ranks. Information of this kind could not be used to validate any completely new technique or method. However, detailed analysis of it might yield information which would be of assistance in an evaluation of past practices made with a view toward synthesis of the best portions of earlier fitness report forms into a new device.

Other possibilities lie in the direction of determining and considering quantitatively more of the factors which are indicative of satisfactory executive performance. One of the important indicators of the quality of executive performance is the morale and attitudes of the rank and file of the organization. It is conceivable that if information as to the morale and attitudes of the subordinates of the officers composing the criterion group were considered in addition to the buddy ratings of the criterion group, a more valid criterion might be

achieved.

An ambitious effort toward determining the factors which are indicative of the quality of executive performance is the ten year project of leadership studies currently in progress on the campus of The Ohio State University.²² The Personnel Research Board of the University is conducting the project and has given a statement of its purpose which is quoted in part below:²³

The purpose of such studies is to develop facts and methods which may be useful in the selection and training of persons for positions of leadership...

This group has made studies of the personnel and organizations of Naval shore establishments and a number of commercial firms and it plans to continue with detailed studies of the personnel and organization of a considerable number of small Naval vessels and aircraft squadrons. Small vessels have been chosen as fields for study because a greater number of comparable units will be available. Briefly stated the objectives of these investigations are to find out, (1) what leaders do, (2) what effect leaders have on their organizations, and, (3) what elements, other than the leaders' qualities have affected the organizations.

If the project is successful, it should do much toward identifying and isolating the qualities which make for good executive ability and in providing improved means for measuring those qualities. An additional or concomitant product of

continued.

The first of these is the fact that the
the second is the fact that the
the third is the fact that the
the fourth is the fact that the
the fifth is the fact that the
the sixth is the fact that the
the seventh is the fact that the
the eighth is the fact that the
the ninth is the fact that the
the tenth is the fact that the

the eleventh is the fact that the
the twelfth is the fact that the
the thirteenth is the fact that the
the fourteenth is the fact that the
the fifteenth is the fact that the
the sixteenth is the fact that the
the seventeenth is the fact that the
the eighteenth is the fact that the
the nineteenth is the fact that the
the twentieth is the fact that the

the twenty-first is the fact that the
the twenty-second is the fact that the
the twenty-third is the fact that the
the twenty-fourth is the fact that the
the twenty-fifth is the fact that the
the twenty-sixth is the fact that the
the twenty-seventh is the fact that the
the twenty-eighth is the fact that the
the twenty-ninth is the fact that the
the thirtieth is the fact that the

the thirty-first is the fact that the
the thirty-second is the fact that the
the thirty-third is the fact that the
the thirty-fourth is the fact that the
the thirty-fifth is the fact that the
the thirty-sixth is the fact that the
the thirty-seventh is the fact that the
the thirty-eighth is the fact that the
the thirty-ninth is the fact that the
the fortieth is the fact that the

the forty-first is the fact that the
the forty-second is the fact that the
the forty-third is the fact that the
the forty-fourth is the fact that the
the forty-fifth is the fact that the
the forty-sixth is the fact that the
the forty-seventh is the fact that the
the forty-eighth is the fact that the
the forty-ninth is the fact that the
the fiftieth is the fact that the

the fifty-first is the fact that the
the fifty-second is the fact that the
the fifty-third is the fact that the
the fifty-fourth is the fact that the
the fifty-fifth is the fact that the
the fifty-sixth is the fact that the
the fifty-seventh is the fact that the
the fifty-eighth is the fact that the
the fifty-ninth is the fact that the
the sixtieth is the fact that the

the sixty-first is the fact that the
the sixty-second is the fact that the
the sixty-third is the fact that the
the sixty-fourth is the fact that the
the sixty-fifth is the fact that the
the sixty-sixth is the fact that the
the sixty-seventh is the fact that the
the sixty-eighth is the fact that the
the sixty-ninth is the fact that the
the seventieth is the fact that the

the seventy-first is the fact that the
the seventy-second is the fact that the
the seventy-third is the fact that the
the seventy-fourth is the fact that the
the seventy-fifth is the fact that the
the seventy-sixth is the fact that the
the seventy-seventh is the fact that the
the seventy-eighth is the fact that the
the seventy-ninth is the fact that the
the eightieth is the fact that the

the program under these circumstances would be accurate objective criteria of executive performance.

the program under these circumstances would be accurate and
jective criteria of executive performance.

PART II

Chapter 4

SERVICE RATING IN THE ARMY SERVICE

Some Early Navy Forms

Information is not available as to exactly when the formal written service rating was first put into use in the Navy. However, the 1891 Report on the Fitness of Officers shown in Appendix B is an example of one of the earliest Navy forms. It constitutes ample evidence that Naval authorities have long felt the need for a means of systematizing and recording the senior's judgments of his subordinates. It is interesting, and perhaps a little discouraging, to note the fundamental similarity between this pioneer form and the fitness report now in use in the Navy. It indicates that progress in this field has been slow indeed.

Subsequent developments. The early Report of Fitness of Officers proved unsatisfactory, and changes were made from time to time. By 1912 the fitness report form had grown to a length of four double-spaced typewritten pages and required the recording of considerably more in the way of detailed and diversified information. The 1912 form was an evaluational type, although the evaluational term prescribed for use had been taken out from the "Excellent", "Good", "Tolerable", and "Not Good" of the 1891 form to a list of verbs of which was to be further modified by adverbs. For example, one could not simply rate an officer "Excellent" on any given trait,

Part II

Chapter 2

One Early Navy School

Information is not available as to exactly when the
 former written service test was first used in the
 Navy. However, the 1901 report on the history of the
 shown is a general one and is not a detailed
 Navy report. It contains a list of the schools and
 the names of the officers who were in charge of them
 recording the results of the tests. It is
 interesting to note that the first school was
 founded in 1882. The first school was the
 first school in the Navy. It was the first
 school in the Navy. It was the first school in the Navy.

General History
 of Officers' School, 1882-1901
 The first school in the Navy was the first school in the Navy.
 It was the first school in the Navy. It was the first school in the Navy.
 The first school in the Navy was the first school in the Navy.
 It was the first school in the Navy. It was the first school in the Navy.
 The first school in the Navy was the first school in the Navy.
 It was the first school in the Navy. It was the first school in the Navy.
 The first school in the Navy was the first school in the Navy.
 It was the first school in the Navy. It was the first school in the Navy.

but must qualify the "Excellent" by adding the appropriate numeral between "3.5" and "4.0". The qualifying numerals to be used with "Very Good" were "3.0 to 3.5" with lesser numerals down to and including "0" assigned for use with the less favorable evaluative terms.

In a letter to the writer, Dr. Everett C. Brundage of the Bureau of Naval Personnel wrote:¹

...These records show that not many major changes occurred after 1912. At this time numerical ratings on a scale of 0.0 to 4.0 were already used. A general "aptitude for the service" rating was also in use, and so were the questions on attitude toward the officer's being "under your command" and toward his being promoted. Later changes in these questions were toward increased quantification. The number of specific ratings [traits] varied after 1917 from 9 in 1919 to 18 in 1921-1924, decreasing to 14 in 1928. Note that in 1932 there were different [rating] forms for sea and shore duty. In general, the series of format changes in the reports indicate an attempt to force more accurate and objective ratings.

The Present Navy Form

OFFICER'S FITNESS REPORT NAVY P-310A (REV. 6-45) is the formidable title of the rating device in current use in the Navy. As shown in Appendix 2 it is principally a graphic scale with normal distribution categories superimposed upon it. It cannot be classed as a forced distribution scale, however, as the instructions in re the distribution are merely hortatory not mandatory. Space for the usual biographical data is provided at the top of the sheet to other with space

for the ratee to indicate his preference for next duty, and further down the page, for the reporting senior to make his recommendations on that subject.

Also located in this top section is a requirement for the ratee to indicate his knowledge, or lack of it, as to whether he is qualified for sea duty. This refers to physical qualifications. This estimate by a layman, and not a disinterested layman at that, is of little value, in the opinion of the writer. Except when the officer has been taken ill suddenly and has not had an opportunity to seek the help of a Naval medical officer, information more reliable than his opinion is available. Rating scale authorities generally agree, it will be recalled, that qualities determinable by more objective means should not be listed on rating scales.

The next section provides ample space for reporting any particular qualifications which the reporting senior believes should be given emphasis. Note that here again a layman's opinion on physical fitness is required.

Looking closely at the rating scale portion of the form we see that it is abbreviated somewhat and is not completely of the descriptive type. Moreover, it has no provisions for minimizing halo effect. Earlier discussion in this thesis has suggested the value of longer scales and has shown the superiority of the descriptive scale and the need for minimizing halo.

Below the rating scale is a section designed to elicit

an indication of the reporting senior's attitude toward having the ratee under his command. The next section below this is designed to determine his feelings toward promoting the ratee. There is also some attempt made toward evaluating the entire fitness report by securing a rough estimate of the number of officers considered by the rater in setting his standards.

Proceeding with the examination we find a provision for citation of commendatory or adverse material, space for a general overall evaluation, and a space in which the rater must indicate whether or not the ratee has seen the report.

Physical makeup. The complete form is made up in a packet of four sheets with carbon paper between the second and third and between the third and fourth sheets. The first page carries on its face the instructions to the reporting senior and on its back a replica of the complete rating form to be used as a rough work sheet in making the rating. The second sheet also has a complete rating form on it while the third has only sections 1 through 6 and the fourth page shows sections 1 through 5. All sheets require the signatures of both the rater and the ratee.

Use of form. When the rater is satisfied with the rating he has made on the worksheet, it is transcribed by typewriter to the second, third, and fourth sheets and signatures are affixed. (It is customary, though not essential, for the ratee to sign the forms before the rating is made since his signature certifies only to the correctness of the information

he has contributed to the form.) The next step is the mailing of the second and third sheets to the Bureau of Naval Personnel for such processing, filing, and subsequent evaluation or consultation as may be required. The fourth page becomes the property of the ratee when his report is mailed to headquarters by the rater.

Some analyses of Navy ratings. An extensive study was made in 1945 by the Training Standards and Curriculum Division of the Bureau of Naval Personnel:²

...to evaluate the Report on the Fitness of Officers as a possible criterion measure for use in validating officer selection and classification requirements.

The fitness report files of 534 junior officers who had entered commissioned service between December 1940 and December 1942 were examined. From each file information was selected from two fitness reports, one from each of two different reporting seniors. Correlations were obtained between the various items of this information. The more significant for our purposes are given in the following table.

Coefficients of reliability between marks by the two seniors:	:	Service throughout the reporting periods.
From +.22 to +.48	:	Sea duty both periods.
From +.0004 to +.18	:	Sea duty one period, shore duty the other.

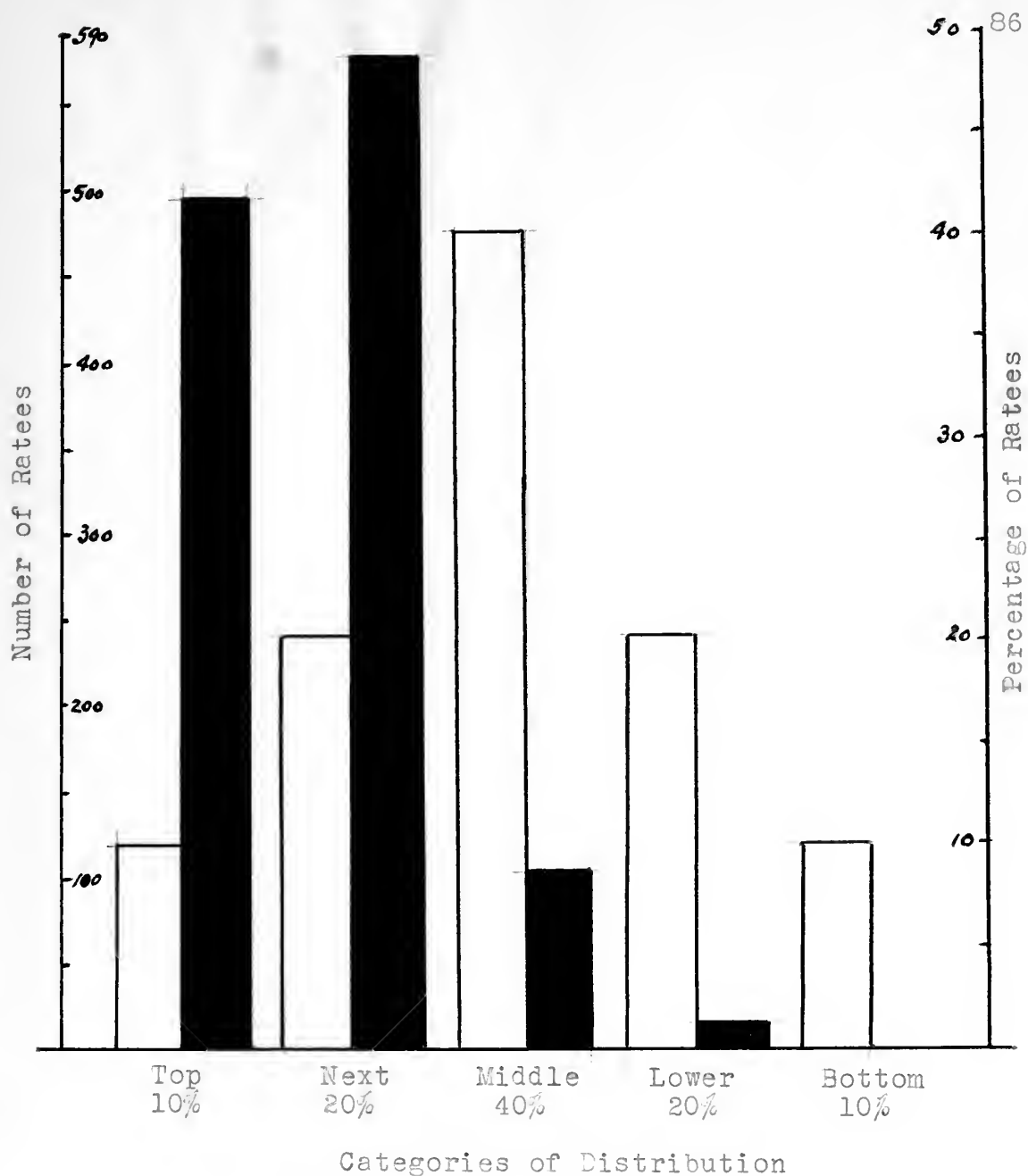
From the above, the unreliability of the ratings is obvious. These figures were obtained from ratings on Navy forms

now superseded but, due to the fact that the currently used Navy scale is less of a descriptive scale than former ones were, it is doubtful if the current scale would yield significantly better results.

Cagle reported results of a study of the distribution of marks obtained on the current Navy fitness report form. His figures, reproduced below, reveal a marked divergence from the normal distribution.³

Percentage: Group	:	Correct (Normal): distribution	:	Actual distribution:	:	Actual Percentage
Top 10%	:	119	:	494	:	41.6
Next 20%	:	238	:	578	:	48.7
Middle 40%	:	474	:	102	:	8.6
Lower 20%	:	238	:	12	:	1.0
Bottom 10%	:	119	:	2	:	0.0
Totals		1188		1188		99.9

A similar study of the ratings made with the current Navy form on forty-seven Ground School Instructors at the Naval Training Command at Pensacola, Florida was reported by Richardson, Bellows, Henry and Company, Inc., in 1948.⁴ Their figures are as follows.



Unshaded Bars - Prescribed Distribution
Solid Bars - Actual Distribution

Figure 4

GRAPHIC PRESENTATION OF DISTRIBUTION DATA
OBTAINED FROM STUDY OF NAVY OFFICER RATINGS

Percentage Group.	:	Actual Percentage Distribution Found.
Top 10%	:	56%
Next 20%	:	44%
Middle 40%	:	2%
Next 20%	:	2%
Bottom 10%	:	0%
		<hr/> 104%

(Note: The error of 4% in the total results from an error introduced in rounding off the small numbers involved when computing percentages.)

These figures also show a marked divergence from the normal distribution.

There has been little done on validity studies of the Navy fitness report system other than as mentioned in the chapter on Criteria, page 77.

Evaluation. In favor of the Navy's form it may be said that:

(a) The instructions to the rater are brief and readily available.

(b) The form is designed to reduce the labor of preparation to a minimum.

(c) The form has provisions for recording all information pertinent to the permanent service record of the ratee except that which is determinable by more objective means (however, see items (e) and (d) below).

Year	Value	Unit
1900	100	100
1901	100	100
1902	100	100
1903	100	100
1904	100	100
1905	100	100
1906	100	100
1907	100	100
1908	100	100
1909	100	100
1910	100	100
1911	100	100
1912	100	100
1913	100	100
1914	100	100
1915	100	100
1916	100	100
1917	100	100
1918	100	100
1919	100	100
1920	100	100
1921	100	100
1922	100	100
1923	100	100
1924	100	100
1925	100	100
1926	100	100
1927	100	100
1928	100	100
1929	100	100
1930	100	100
1931	100	100
1932	100	100
1933	100	100
1934	100	100
1935	100	100
1936	100	100
1937	100	100
1938	100	100
1939	100	100
1940	100	100
1941	100	100
1942	100	100
1943	100	100
1944	100	100
1945	100	100
1946	100	100
1947	100	100
1948	100	100
1949	100	100
1950	100	100
1951	100	100
1952	100	100
1953	100	100
1954	100	100
1955	100	100
1956	100	100
1957	100	100
1958	100	100
1959	100	100
1960	100	100
1961	100	100
1962	100	100
1963	100	100
1964	100	100
1965	100	100
1966	100	100
1967	100	100
1968	100	100
1969	100	100
1970	100	100
1971	100	100
1972	100	100
1973	100	100
1974	100	100
1975	100	100
1976	100	100
1977	100	100
1978	100	100
1979	100	100
1980	100	100
1981	100	100
1982	100	100
1983	100	100
1984	100	100
1985	100	100
1986	100	100
1987	100	100
1988	100	100
1989	100	100
1990	100	100
1991	100	100
1992	100	100
1993	100	100
1994	100	100
1995	100	100
1996	100	100
1997	100	100
1998	100	100
1999	100	100
2000	100	100
2001	100	100
2002	100	100
2003	100	100
2004	100	100
2005	100	100
2006	100	100
2007	100	100
2008	100	100
2009	100	100
2010	100	100
2011	100	100
2012	100	100
2013	100	100
2014	100	100
2015	100	100

[illegible][illegible][illegible]

Received 10/10/2012; Accepted 11/10/2012; Published 12/10/2012

473 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 104

三、九、九

• 91011000

(d) The form presents the strengths and weaknesses of the rates in an analytic and easily understandable form.

The Navy's rating system leaves much to be desired, however. Chief among such considerations are:

(a) No provision is made for rater training, an omission for which the excellent instruction sheet cannot compensate fully.

(b) The rating relies on judgement.

(c) The design of the form does not permit rapid and accurate sorting, tabulation, and evaluation of the data by machine.

(d) The form attempts to elicit information on physical fitness which is more accurately determinable by other means.

(e) The form gives precious space to the recording of the ratee's preference for next duty, a bit of information also furnished to the Bureau by the ratee annually, or more often if preferences change, on the OFFICER'S DATA CARD NAVPLRS-340 (rev. 7-46).

(f) The rating scale is abbreviated and not completely of the descriptive type (in this respect, the rating scales of earlier Navy forms as shown in Appendix C were superior to the presently used one) and it provides no safeguards against the halo effect or rater's bias.

(g) The form makes no provision for assisting the reporting senior in preparation for conduct of the post-rating

(d) The form presented in the preceding paragraph is the form of the code in an analytic and easily understandable form.

The navy's radio system leaves much to be desired,

however. Chief among the deficiencies are:

(a) No provision is made for the use of the code in the navy.

ion for which the code is intended.

are fully.

(b) The code is not used in the navy.

(c) The code is not used in the navy.

accuracy, reliability, and security of the code.

machine.

(d) The code is not used in the navy.

can be used in the navy.

means.

(e) The code is not used in the navy.

the code is not used in the navy.

also explained in the preceding paragraph.

often is not used in the navy.

NAVY 1-340 (Rev. 7-21)

(f) The code is not used in the navy.

of the code is not used in the navy.

early in the history of the navy.

presented in the preceding paragraph.

half of the code is not used in the navy.

(g) The code is not used in the navy.

power, which is not used in the navy.

interview with the ratee (see page 86).

(h) The rating procedure does not provide for the rating being made by the superior who has the most complete knowledge of the ratee. Instead, this is the prerogative of the commanding officer who, in a large command, may have only the most superficial knowledge of the ratee.

(i) The rating procedure and the form make insufficient provision for the difference in duties and qualities required of officers, depending on whether they are of the Line or Staff, whether they are specialists within those categories, or whether they are in school or engaged in the duties of their respective classifications.

(j) The procedure makes no provision for correcting or adjusting the markings to compensate for the tendency of some raters to mark high and others to mark low.

(k) The rating procedure makes no provision for either the averaging of the ratings made by several raters or the review at higher echelons of ratings made at lower echelons.

(l) There is no provision for rating the rater.

(m) And, finally, the Navy's rating form has low reliability and produces an excessively skewed distribution of scores.

The Army Rating Form

As has been mentioned, the Army uses a form known as the "forced choice" rating form.⁵ Samples are shown in Appendix E. The most conspicuous features of this device are,

interview with the race (see page 88).

(b) The racing procedure does not provide for the

ing being made by the referee and has the most complete know-
ledge of the race. In fact, this is the referee's duty.
commanding officer who, in a large command, may have only the
most superficial knowledge of the race.

(1) The race procedure is not a

provision for the difference in races and conditions of
of officers, depending on the type of the line of
staff, and the race procedure is not a
or whether they are in a race or not. It is the duty of
their respective officers.

(2) The procedure does not provide for the

adjustment of the race to the conditions of the race and
refers to the race and other conditions.

(c) The racing procedure does not provide for the

the system of the race. It is the duty of the referee to
view at the race and other conditions.

(1) There is no provision for the

(a) The racing procedure does not provide for the

likelihood of the race being a success or failure.
success.

The racing procedure

is not a race procedure. It is the duty of the referee to
the "1. The racing procedure is not a race procedure."
The racing procedure is not a race procedure.

(a) the forced choice items and, (b) the provision for performing the marking directly on a machine scorable sheet.

Looking at the sheet, we find it entitled EFFICIENCY REPORT with the additional identification symbols at the bottom of the page of WD - AGO FORM 67-1, 1 Jul 47. The upper half of the first sheet is occupied by the biographical section, followed about midpage by Section B, a space for a general overall evaluational statement by both the rater and the rating reviewer or indorser. Next, in Section C, is a list of nine important situations with space for the rating officer and the indorsing officer to indicate their attitudes toward having the ratee serve in them. Following this are spaces for recommendations by the rater and the indorser for future duty assignments and future training. Lastly there is a device intended to determine what experience with the ratee the rater used as a basis for his judgements.

The reverse side of the first sheet is blank. It is reserved for the use of the Career Sections of the Arms and Services of the Department of the Army.

The Biographical data are repeated on the second sheet followed by the first section of forced choice items, Section IV. These items are intended to measure the rater's judgement of the ratee's job proficiency. Section V of this sheet, also entitled Job Proficiency, is designed to secure judgements from rater and indorser as to which of a list of seven specific positions the ratee is, or would be, most proficient

(a) the forced choice item and, (b) the provision for the

forming the reading directly on a reading score sheet.

Looking at the sheet, it is evident that the

REPORT with the conditional identification symbols at the bot-

tom of the page of the - and page 57-1, 1 and 2, the upper

half of the first sheet is divided by a vertical line into

tion, followed by a vertical line, a space, and a vertical

of overall evaluation, and a space, and a vertical line

rating system, and a space, and a vertical line, and a space

of nine important observations with space for the rating system.

and the overall rating - in the first column, and a space for

having the rating given in the first column, and a space for

recommendations of the test, and the space for the rating sheet.

evaluation and rating system. In the first column, and a space for

tended to indicate that the rating sheet is a rating sheet.

used as a basis for the rating sheet.

The rating sheet is of two parts, and is divided into

reserves for the use of the rating system of the rating sheet.

reserves of the rating system of the rating sheet.

The rating sheet is of two parts, and is divided into

reserves for the use of the rating system of the rating sheet.

reserves of the rating system of the rating sheet.

The rating sheet is of two parts, and is divided into

reserves for the use of the rating system of the rating sheet.

reserves of the rating system of the rating sheet.

The rating sheet is of two parts, and is divided into

in and which is the second most suitable job from the point of view of his proficiency in it.

On the reverse side of the second sheet there are two sections designed to determine the personal qualifications of the ratee. The first of these, Section VI, consists of forced choice items. The other, Section VII, lists six personal qualification items with spaces for the rater and indorser to indicate the degree to which the ratee exhibits each.

Finally, there is an attempt to determine where the ratee stands, in the opinion of the rater, relative to the other officers of his rank who have been rated at this time by the rater.

Physical makeup and use. The Army rating form is a leaflet of two pages with dimensions of 9 inches by 11 inches and arranged to open from the right edge like a book. It is not equipped with carbon paper but its construction makes it easy to insert a piece when typing in the biographical data, the only entries which require duplication. As mentioned earlier, the sheets are machine scorable. Thus, if the marking is performed with an "electrographic pencil" as prescribed, the reports may be scored by machine without further processing.

There is provision for the signatures of both the rater and the indorsing officer but not of the ratee. Moreover, there is no requirement that he be shown his rating. It is true that the meaning of the markings on the forced choice sections will be known only to the possessor of the scoring key in the

Adjutant General's Office, but certainly the rater could profit by seeing the ratings made on Sections C, V, and VII as these are merely graphic rating scales.

The forced choice theory. Sisson rather thoroughly described and discussed forced choice items, the theory underlying them, and the methods employed in their construction.⁶ Only a brief treatment will be attempted here.

Developers of the forced choice technique reasoned that if items could be offered to the respondent in pairs, so chosen that each appeared equally acceptable or unacceptable, and further, if these items could be so selected that choice of one would be an indication of the presence of one quality or opinion and choice of the other would indicate another quality or opinion, then they would have a device for measuring qualities or opinions which could not be controlled by the respondent. The fact that although both items might appear to the respondent to be irrelevant, he must nevertheless make a choice, gave the method its name.

To improve the rater's attitude toward the device, the Army rating designers catered to the desire of people to speak well of others if possible, a desire which leads to a tendency in rating known as "generosity error". They arranged their items in tetrads of two favorable and two unfavorable statements with the provision that the rater must choose only one statement which is most like the ratee and a second which is least like him.

Adjutant General's Office, and concerning a matter which
 profits by seeing the action on a bill, and VII
 as these are merely private matters.

The Local Choice Theory. Under rather favorable

described and discussed local choice theory, and theory under-
 lying them, and the method employed in their construction.
 Only a brief treatment will be attempted here.

Development of the choice theory is presented

that it seems to be related to the method of choice.

as chosen that each appears to be a method of choice.

choice, the method, if there is a method, is a method of

choice of one or more of the methods of choice.

quality of opinion and choice in the method of choice.

another method of opinion, which is a method of choice for

measuring qualities of opinion, which is a method of choice for

by the method. The first step is to choose a method.

appear to be a method of choice, in the method of choice.

There is a choice, and the method of choice.

To improve the method of choice, the method of choice.

Army Corps of Engineers, and the method of choice.

well of choice of choice, a method of choice, and a method

in choice, which is a method of choice, and a method

from the method of choice, and a method of choice, and a method

method of choice, and a method of choice, and a method of choice

method of choice, and a method of choice, and a method of choice

method of choice.

The data as to the apparent favorableness or unfavorableness of the items and their discriminatory value are determined by empirical methods.

Some analyses of Army ratings. The extensive testing which was done in connection with the design of the Army rating form required nearly two years to complete and yielded results which led the investigators to conclude that the new form was the "most valid"⁷ of those tested and further, it was "clearly superior"⁸ to the older form it was designed to replace. It is unlikely that any organization, private or military, will attempt so extensive a project in the foreseeable future. Consequently, the Army's rating system probably will retain the distinction of "the most thoroughly tested" for some time to come.

The criterion group was obtained by the sociometric method discussed in the preceding chapter and consisted of nearly 50,000 officers. These officers were rated on several different devices including the Army form then prescribed for official use, WD AGO FORM 67, and two versions of the new forced choice design. FORM 67 is described rather completely by Sisson but in general it was merely an evaluative graphic scale.⁹ Correlations of the results prompted the conclusions mentioned above but none of the correlations were as high as those reported by Probst and B. Knauft for their respective check list rating scales, (see preceding chapter). It is only fair to add, however, that the validities obtained by the Army

investigators were based on enormously greater numbers of cases and that, whereas the Army experimenters used buddy ratings as the criterion, both Probst and Knauft used supervisors' judgements. It seems likely that supervisors' judgements would correlate more closely with ratings made by supervisors than with buddy ratings.

More recent studies of ratings obtained with the new Army form have yielded the distribution curves presented in Figures 5, 6, 7 on pages 96, 97, and 98 respectively.¹⁰ Although as shown by Sisson,¹¹ the forced choice rating gives a slightly better approximation of the normal distribution than the FOM 67 which it replaced, these more recent studies reveal that it falls far short of attaining the ideal, normal distribution.

Evaluation. The currently used Army form has several points of superiority. Principal among these are:

(a) By "disguising" the nature of the marks being given, it minimizes the ability of a biased rater to make an unduly biased report.

(b) The form is designed to minimize the labor required to prepare it, to mark it, and to score it.

(c) It provides for review and endorsement by higher authority.

(d) The procedure provides that the rater's immediate superior will perform the rating.

(e) No attempt is made to measure qualities which may

investigation was made of the various factors which
 enter into the determination of the rate of
 reaction in the oxidation of organic compounds. It was
 found that the rate of reaction is determined by the
 nature of the compound, the nature of the oxidizing agent,
 the temperature, the concentration of the reactants,
 and the presence of catalysts.

It was found that the rate of reaction is determined
 by the nature of the compound, the nature of the oxidizing
 agent, the temperature, the concentration of the reactants,
 and the presence of catalysts. The rate of reaction is
 determined by the nature of the compound, the nature of the
 oxidizing agent, the temperature, the concentration of the
 reactants, and the presence of catalysts. The rate of
 reaction is determined by the nature of the compound, the
 nature of the oxidizing agent, the temperature, the
 concentration of the reactants, and the presence of
 catalysts.

The rate of reaction is determined by the nature of the
 compound, the nature of the oxidizing agent, the temperature,
 the concentration of the reactants, and the presence of
 catalysts. The rate of reaction is determined by the nature
 of the compound, the nature of the oxidizing agent, the
 temperature, the concentration of the reactants, and the
 presence of catalysts. The rate of reaction is determined
 by the nature of the compound, the nature of the oxidizing
 agent, the temperature, the concentration of the reactants,
 and the presence of catalysts.

The rate of reaction is determined by the nature of the
 compound, the nature of the oxidizing agent, the temperature,
 the concentration of the reactants, and the presence of
 catalysts. The rate of reaction is determined by the nature
 of the compound, the nature of the oxidizing agent, the
 temperature, the concentration of the reactants, and the
 presence of catalysts. The rate of reaction is determined
 by the nature of the compound, the nature of the oxidizing
 agent, the temperature, the concentration of the reactants,
 and the presence of catalysts.

be better determined by more objective means.

(f) The form provides a means to indicate the basis on which the rating was made, thus affording information to aid in evaluating the rating.

(g) The validity is superior to that of the evaluative rating scale.

(h) The distribution of scores produced by the forced choice device approximates the normal distribution more closely than does the distribution from the evaluative graphic scale. In particular, the forced choice form causes more ratings to fall into the "average" and "below average" zones and thereby discriminates better between officers in the lower end of the distribution.

The Army's rating system has a number of shortcomings too. The more important of these are:

(a) There is incomplete provision for an indication of the strong points and weaknesses of the ratee. Certain portions, Sections C, V, and VII, of the rating device do show some information of this kind but the two sections of forced choice items conceal their true indications from the ratee and rater.

(b) There is no provision for discussing the rating with the ratee or for certifying to him that the rating has been duly made and submitted to headquarters.

(c) There is no provision for rating the raters.

(d) The rating form and procedure make insufficient

be better determined by more objective means.

(1) The test provided a means to indicate the basis

on which the rating was made, thus eliminating information to

aid in evaluating the rating.

(2) The rating is a function of the evaluation

rating device.

(3) The discrimination of the rating device is based on

choice device a proportion of the rating device is based on

if there is a difference in the rating device, the rating device

in particular, a rating device is based on the rating device

fall into the "average" and "high" rating device and thereby

discrimination rating device is based on the rating device

discrimination.

The rating device is based on the rating device

too. The rating device is based on the rating device.

(4) There is a difference in the rating device, the rating device

the rating device is based on the rating device, the rating device

there, the rating device is based on the rating device, the rating device

some information is based on the rating device, the rating device

choice is based on the rating device, the rating device is based on

rating.

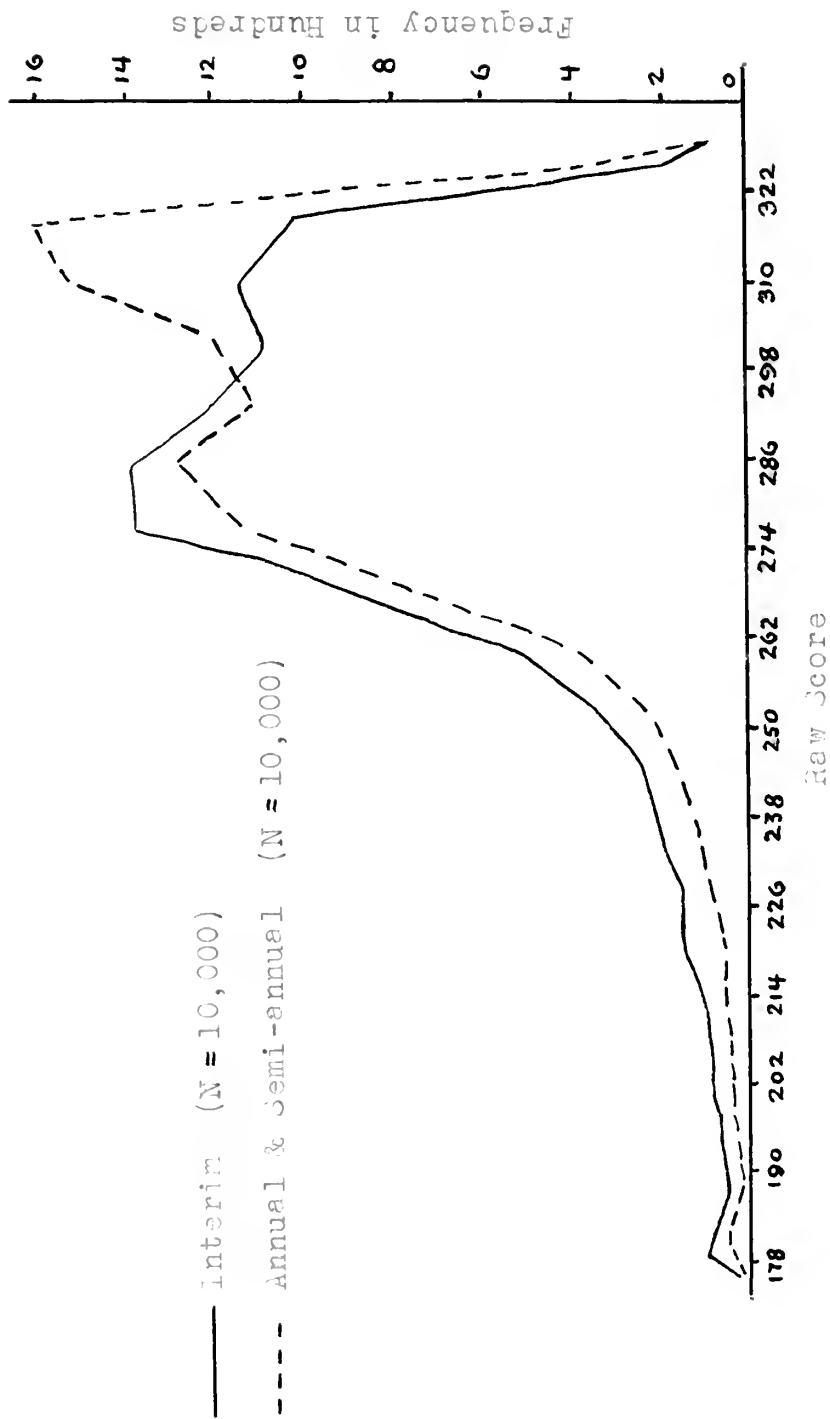
(5) There is a difference in the rating device, the rating device

with the rating device is based on the rating device, the rating device

based on the rating device is based on the rating device, the rating device

(6) There is a difference in the rating device, the rating device

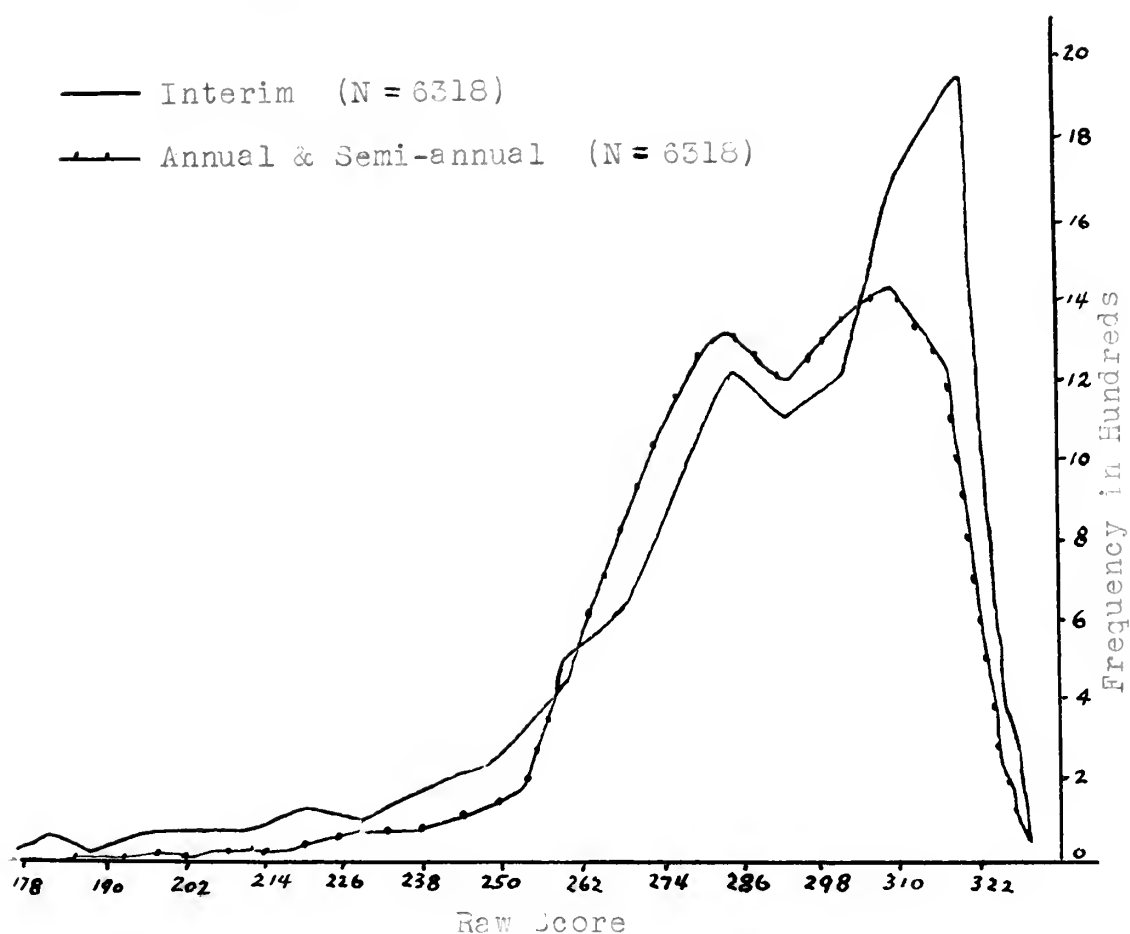
(7) The rating device is based on the rating device, the rating device



From D AGO PRS REPORT 722, The 1943 standardization of Officer Efficiency Report, D AGO FORM 57 - 1 7 June, 1943, p. 18

Figure 5

DISTRIBUTION OF OVERALL RAW SCORES ON ARMY OFFICER EFFICIENCY REPORT, FORM 57 - 1, ALL GRADES



From WD AGO PRS REPORT 799, The 1948 Standardization
of Officer Efficiency Report WD AGO FORM 67 - 1
 7 June, 1949, p. 21

Figure 6

DISTRIBUTION OF OVERALL RAW SCORES ON
 ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1

Field Grade

— Interim (N = 3682)
 ---- Annual & Semi-annual (N = 3682)



From WD AGO PRS REPORT 799, The 1948 Standardization
of Officer Efficiency Report WD AGO FORM 67 - 1
 7 June, 1949, p. 22

Figure 7

DISTRIBUTION OF OVERALL RAW SCORES ON
 ARMY OFFICER EFFICIENCY REPORT, FORM 67 - 1

Company Grade

provision for the difference in duties and qualities required of officers depending on whether they are of the Line or Staff, whether they are specialists within those categories, or whether they are in school or engaged in the duties of their respective qualifications. It is possible, however, that the empirically chosen forced choice items may automatically account for such differences.

The Air Force Report

The Air Force in 1948 adopted a new rating system which was the outcome of considerable research by the American Institute of Research of Pittsburgh.¹² It features a pamphlet or work booklet, in which the rater records the results of observations he makes of the ratee, and a single sheet rating form on which he summarizes the data recorded in the booklet. A sample page from the booklet is shown in Appendix F while the rating sheet is shown in Appendix G.

Description and use of booklet. To guide the rater in his observation of the ratee, the work booklet, entitled Check List of Critical Requirements for Officer Evaluation on Report of Officer Effectiveness, lists six areas in which proficiency, or the lack thereof, is significant. These six areas are:

- I. Proficiency in Handling Administrative Details.
- II. Proficiency in Supervising Personnel.
- III. Proficiency in Planning and Directing Action.
- IV. Acceptance of Organizational responsibility.

provision for the purpose of the bill, and the bill is not intended to be construed as a limitation on the power of the President to remove officers in general, or as a limitation on the power of the President to remove officers in particular, or as a limitation on the power of the President to remove officers in any particular case.

V. Acceptance of Personal Responsibility.

VI. Proficiency in Duty Military Occupational Specialty.

Within each area of proficiency are listed specific observable behaviors, each divided into five degrees of competence with each degree indicated by a one digit numeral and a short descriptive statement. These specific observable behaviors are arranged in a column with the descriptive statements and numerals placed along a line opposite each as in a graphic rating scale. Thus if the rater, while considering the performance of the ratee in one of the significant areas, observes behavior which may be described by one of the phrases provided, he marks the digit over the statement. As this process continues throughout the period between ratings, a body of information about the proficiency of the ratee is built up based on his observed behavior. It is recorded in terms of the numerals with the figure "1" indicating minimum competence and "5" indicating maximum proficiency.

When the date for preparing the formal rating arrives, the marks in the booklet are transferred to spaces provided on the rating sheet which is a condensed graphic rating scale. The scoring is done by hand on this sheet, treating the marks with the prescribed weights.

The rating sheet. The rating sheet, which is entitled Report of Officer Effectiveness, provides space for data other than the summarized observations from the work booklet. There

V. Acceptance of the results.

VI. Instructions in the use of the instrument.

101

1. This section of the instrument is designed to

provide a means for the collection of data on the

subject's response to the various stimuli presented

in the course of the experiment.

2. The subject is instructed to respond to the

stimuli by pressing the appropriate key on the

response board.

3. The subject is instructed to respond to the

stimuli as quickly as possible.

4. The subject is instructed to respond to the

stimuli by pressing the appropriate key on the

response board.

5. The subject is instructed to respond to the

stimuli as quickly as possible.

6. The subject is instructed to respond to the

stimuli by pressing the appropriate key on the

response board.

7. The subject is instructed to respond to the

stimuli as quickly as possible.

8. The subject is instructed to respond to the

stimuli by pressing the appropriate key on the

response board.

9. The subject is instructed to respond to the

is, of course, a place for certain necessary biographical information. Next on the sheet is a rather large space (nearly one half of the page) for a general overall evaluational report. Next is a provision for the specific, formal delegation of the rating duty by the commanding officer to some other officer together with a statement of the reason for such delegation. This makes it possible officially to assign the reporting duty to the officer with the most adequate knowledge of the ratee. Following next is a place for the signature of the reporting officer (rater) and the comments and signature of the indorsing officer.

The reverse side of the sheet is given over to a re-statement of the six significant areas of proficiency with space under each for entering the summarized numerical marks described in the preceding treatment of the booklet and its use. The spaces for the entries are so arranged that the scores may be calculated and summarized on the sheet and the total entered at the bottom. Lastly, there is a small space reserved for use in describing the ratee's "Military Occupational Specialty".

Evaluation. The strength of the system lies in its use of the work booklet to record actual observations of significant behaviors as they occur. It is, in effect, a comprehensive graphic rating scale of the descriptive type with the advantages inherent in such a device. Moreover, the booklet provides, to a considerable extent, for rating on the spot as

the behavior occurs, thereby eliminating the errors due to the frailties of human memory and securing a rating on the firm basis of actual observed behaviors.

The designers have reported a split halves reliability coefficient of +.89 using 534 ratings divided into equivalent halves. When corrected by the Spearman-Brown formula the reliability coefficient became +.94. This is the highest reliability coefficient for a rating device which the writer has found reported.¹³

Other advantages of this system include:

(a) Limitation of the rating to qualities which cannot be determined more accurately by more objective means.

(b) A design which permits quick and easy transfer of the information accumulated in the booklet to the rating sheet.

(c) The rating sheet is designed to present the markings in an analytic and easily understandable form.

(d) Provision is made for a general overall evaluation-al statement.

(e) Provision is also made for a statement of the ratee's specialty.

(f) There is provision for formal delegation of the rating responsibility.

(g) And finally, there is provision for the review and indorsement of the ratings.

Chief among the disadvantages of the system is the obviously unwieldy procedure of the rater's attempting to keep

the behavior occurs, thereby eliminating the error due to the friction of the system, and resulting in a more accurate firm basis of actual behavior.

The test, then, is a direct test of the reliability of the data. The data are divided into two halves, each consisting of a predetermined number of reliability coefficients. The test is then repeated, and the reliability coefficients are compared. This is the highest reliability coefficient and a direct test of the error due to the friction of the system.

When compared to the error due to the friction of the system, the error due to the friction of the system is

(a) The error due to the friction of the system is

be determined from the error due to the friction of the system.

(b) The error due to the friction of the system is

the error due to the friction of the system is

(c) The error due to the friction of the system is

the error due to the friction of the system is

(d) The error due to the friction of the system is

the error due to the friction of the system is

(e) The error due to the friction of the system is

the error due to the friction of the system is

(f) The error due to the friction of the system is

the error due to the friction of the system is

(g) The error due to the friction of the system is

the error due to the friction of the system is

(h) The error due to the friction of the system is

the error due to the friction of the system is

current a work booklet on each of his officer subordinates. It is not difficult to believe that, in actual practice, the booklets are relegated to the senior's desk drawer to be pulled out from time to time and brought "up to date" by the process of recalling incidents to record. Although this practice undermines the plan to a considerable extent, it is probably better than the technique common in most rating plans in which the rater sits down once in three months or six months, or whatever the rating interval may be, and attempts a judgement based on what he can recall of his observations of the ratee during the interval since the last rating.

Other disadvantages of the system are:

(a) There is no provision for showing the ratee his rating.

(b) There is no provision for certifying to the ratee that his rating has been submitted to headquarters.

(c) The rating form is not designed to take advantage of modern machine methods of scoring, sorting, tabulation, and evaluation.

(d) The system does not provide for rating the raters.

(e) The system does not indicate the kind of experience with the ratee which the rater has used as a basis for his judgements. That is, one cannot tell from the rating whether the ratee was observed only in a school situation, an office situation, or in an operational position.

(f) The rating procedure and the form make no allowance

for the difference in duties and qualities required of officers depending on whether they are of the Line or the Staff, or whether they are specialists within those categories. It is possible, however, that the investigators, in choosing for the items on the rating scale in their work booklet "...incidents of how effective and ineffective officers had acted in particular military situations..."¹⁴ have automatically accounted for differences in the duties and qualities required of various officers.

The Marine Corps Rating Form

Description and use. THE REPORT ON FITNESS OF OFFICERS OF THE UNITED STATES MARINE CORPS shown in Appendix H, is the briefest of the four military rating devices. The face of the form provides space for the usual biographical data and presents a few brief instructions to the rater.

Below these instructions is a graphic scale which lists the principal duties of a Marine officer in general terms with provisions for an evaluative rating on each. The possible judgements range from "Unsatisfactory" to "Outstanding".

Turning to the reverse side of the sheet we find a second graphic scale designed to measure certain attributes considered significant, including "Physical fitness" and "Intelligence". This scale also requires evaluative judgements ranging from "Unsatisfactory" to "Outstanding".

Following the second rating scale are several questions intended to elicit information as to the following:

(a) Any adverse temperamental, moral, or physical characteristics which the ratee might have.

(b) Any other derogatory information which the rater may have on the ratee.

(c) The rater's attitude toward having the ratee under his command in wartime.

(d) The rater's estimate of the ratee's "General Value to the Service".

There is also space for any additional pertinent information or comment not covered elsewhere in the report.

Analysis. Recently the Headquarters of the Marine Corps began a project of research,¹⁵

...dealing with the revision of both officer and noncommissioned officer fitness reports with a view to improvement of those currently in use.

Proceeding with the portion of the project concerned with the officer fitness report, the investigators constructed six different types of rating devices based on sample rating forms and information obtained from the other three military services and from thirty leading commercial concerns. Using these six devices and the official Marine Corps form, comparable ratings were obtained on a population of 376 Marine officers of varying ranks with 208 other Marine officers of varying ranks acting as raters. The project plans call for correlation of these ratings with buddy ratings of the 376 subjects as a criterion.

The results, when they become available, will likely prove to be an interesting and valuable contribution to the store of knowledge in this field.

Evaluation. Until such time as the findings of the study described above become available, evaluation of the Marine Corps form must proceed largely on a basis of a consideration of its design.

The most noticeable advantage of the form is its brevity and the ease with which it can be filled out. This brevity is matched by the succinctness of the instructions to the rater. Other good points of the form are:

- (a) It has the advantage inherent in a graphic scale in that the assessment of the ratee is itemized, showing his strong points and his weaknesses.
- (b) It provides for a general overall evaluational statement by the rater.
- (c) It provides for the report of pertinent information or comment not otherwise covered.
- (d) It provides for an indication of the rater's attitude toward having the ratee under his command during war service.

Turning attention to the shortcomings of the form, we find that:

- (a) The graphic scales are abbreviated and contain evaluative rather than descriptive terms to indicate the varying degree of possession of a trait.

The Council, on the other hand, has been unable to
 to be able to do so, and has been unable to do so.

It is a matter of fact that

of the Council, on the other hand, has been unable to

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

and, in fact, the Council has been unable to do so, and has been unable to do so.

and, in fact, the Council has been unable to do so, and has been unable to do so.

It is a matter of fact that

(b) The traits or qualities on the scales are not sufficiently well defined.

(c) There is no safeguard provided against the halo effect.

(d) One graphic scale includes "Physical fitness" and "Intelligence" among the qualities to be rated, a violation of the principle that qualities which can be more accurately determined by more objective means should not be listed on rating scales.

(e) The form is not designed to permit rapid and accurate scoring, tabulation, and evaluation of the data by modern machine methods.

(f) The form does not require that the rating be shown to the rates and there is no provision for assisting the rater in preparing for such an interview.

(g) The rating procedure does not provide for the rating being made by the superior with the most complete knowledge of the rates.

(h) The rating procedure and the form make no provision for the difference in duties and qualification required of officers depending on whether they are of the Line or the Staff, whether they are specialists within those categories, or whether they are in school or engaged in the duties of their respective classifications.

(i) The rating procedure makes no provision for either the averaging of the ratings made by several raters or the

6 4 2

[illegible]

3. 11. 1950

2011年12月31日 星期日

05220

1000

1000

Figure 1. The study area.

... ..

100

(1)

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

* 2000-01-01 00:00:00

review at higher echelons of ratings made at lower levels.

(j) Finally, the rating procedure makes no provision for certifying to the ratee that his rating has been submitted to headquarters.

SUMMARY

From the preceding description and discussion it is evident that the Navy's fitness report form is generally unsatisfactory. The Army's form is a superior one and is the most extensively tested of the four. Its principal disadvantage lies in the absence of any provision for acquainting the ratee with the details of his rating to aid him in self improvement. The form used by the Air Force appears to have considerable "face validity" and is an example of the best type of graphic rating scale. It possesses the added good feature of a provision for systematizing the rater's observation of the ratee to a greater extent than is usual in rating systems. However, the Air Force system suffers from cumbersome in use. The chief advantage of the Marine Corps form is its brevity.

review of higher education at present, and the results.

(1) Finally, the results of the review.

For certifying to the review, the results of the review.

to be published.

—

There are several reasons for the results of the review.

First, the results of the review are based on the results of the review.

Second, the results of the review are based on the results of the review.

Third, the results of the review are based on the results of the review.

Fourth, the results of the review are based on the results of the review.

Fifth, the results of the review are based on the results of the review.

Sixth, the results of the review are based on the results of the review.

Seventh, the results of the review are based on the results of the review.

Eighth, the results of the review are based on the results of the review.

Ninth, the results of the review are based on the results of the review.

Tenth, the results of the review are based on the results of the review.

Eleventh, the results of the review are based on the results of the review.

Twelfth, the results of the review are based on the results of the review.

100

PART III

Chapter 1

CONCLUSIONS

From the foregoing chapters of description and discussion, certain conclusions may be drawn regarding the field of service rating in general and the design of an improved Naval officer's fitness report in particular. These conclusions may be summarized briefly as follows:

(a) Those in authority cannot eliminate the need for, nor escape the responsibility of assessing, either at intervals or more or less continuously, the value of their individual subordinates.

(b) In the present state of the science of psychological measurement, dependence must be placed on judgement in achieving these assessments.

(c) When assessing executives and Naval officers, the dependence on judgement is necessarily greatest due to the non-existence, to a large extent, of objective measures of executive performance.

(d) Human judgement is a complex product of many subtle, mutually interacting influences and, unless it is rather firmly founded on objective evidence, it is certain to be a variable entity, characterized by considerable inaccuracy.

(e) Lacking suitable means of obtaining objective evidence, we need some method of systematizing judgement and controlling or minimizing its weaknesses. A concomitant need,

THE

OF

THE

... ..
... ..
... ..
... ..

... ..

... ..
... ..
... ..
... ..

... ..

... ..
... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

which is relatively easy to fill, is provision of a device for recording judgements, thereby avoiding dependence on unreliable memory.

(f) Undismayed by the difficulty of the problem, investigators have sought energetically for a number of years (at least since the closing years of the nineteenth century), and are continuing the search, for a means of controlling or minimizing the vagaries of human judgement in service rating.

(g) Such means as have been devised for this purpose have been only partially successful. This is perhaps due to failure to filter out of the rating the reflection therein of the personality of the rater. It will be remembered that the rater marks the ratee not as the ratee is but as he perceives the ratee to be.

(h) It appears that further improvement of importance must await success in, (1) formulation and verification of objective criteria of executive performance and, (2) the development of a whole new theoretical basis, as suggested by Flanagan.¹ In the meantime, the best features of the existing systems should be used, with full realization of their limitations, since any tool, even an imperfect one, is better than none.

(i) Each of the several systems of service rating in common use today has its advantages and disadvantages.

(j) The most promising possibilities as types of a new Navy officer's fitness report form appear to be the forced

which is subject to the provisions of the
for recording, and the provisions of the
relative to the same.

(2) The provisions of the law...

...at least one of the following conditions
and the provisions of the law...
...the provisions of the law...
(3) The provisions of the law...

have been...
...the provisions of the law...
...the provisions of the law...
...the provisions of the law...

The provisions of the law...

(4) The provisions of the law...
...the provisions of the law...
...the provisions of the law...
...the provisions of the law...

...the provisions of the law...
...the provisions of the law...
...the provisions of the law...
...the provisions of the law...

...the provisions of the law...
...the provisions of the law...
...the provisions of the law...
...the provisions of the law...

choice rating and the Probst check list device, although neither has been tested conclusively against a graphic rating scale of superior design. The forced choice form seems to be most resistant to rater's bias and also while the check list as designed by Probst is more successful in achieving an approximately normal distribution of scores.

(k) There are certain extra features which should be a part of the rating system if it is to accomplish each of its objectives.

(1) A few of these features are incompatible in that inclusion of one of them will detract somewhat from the effectiveness of another. For example, it is desirable to omit from the rating form the key for scoring in order to deny the rater information with which he may control the overall mark he gives. (Such concealment is fundamental to the forced choice system.) But then the real meanings of the ratings are thus withheld, important information which both the rater and referees should have is kept from them and the value of a post rating interview is greatly reduced.

With these considerations in mind, it is proper to advance to the problem of improving the rating system in use for evaluating Naval officer performance.

PART III

Chapter 2

RECOMMENDATIONS

First Recommendation

It has been concluded that the most promising possibilities as types of a new Navy officer's fitness report are the forced choice rating and the Probst check list device. A third, perhaps somewhat less encouraging, possibility is an improved graphic rating scale incorporating all the recommended features for increasing objectivity and resistance to halo and rater's bias.

As stated in the preceding chapter, neither the forced choice device nor the Probst check list is clearly the better in all respects, and neither has been tested conclusively against a graphic scale of superior design. It is recommended, therefore, that the Bureau of Naval Personnel experiment with a scale of each of the three types especially constructed for its use. The three devices should be tested simultaneously for reliability and for validity against improved criteria and using in both tests the largest practicable populations.

The improved criteria should be derived from a proper combination of buddy ratings and other pertinent information regarding the ratees such as the morale and attitudes of their subordinates, the effectiveness of the organizations which they headed, (as determined by the most objective means which can be devised), etc. The methods to be employed in isolating and

collecting this information and in achieving its proper combination are beyond the scope of this thesis and cannot be discussed here. Suffice it to say, however, that the importance of the criteria is so great that no practicable effort should be spared in carrying out this phase of the project.

Form

The administration of officer personnel in the Navy is such that, although in some cases, initiation of administrative action may take place in the field, final authority rests in the Bureau of Naval Personnel. A fitness report designed to give only information for such final action might very well be of the type which conceals the true nature of the rating made upon it from all who do not hold the scoring key.

However, as discussed in Chapter 1 of PART I, the efficiency evaluation has additional objectives. It will be remembered that supervisor improvement is one objective, improvement of the ratee is another, while aiding in the maintenance of morale and discipline completes the list. Maximum accomplishment of the first two of these will require that the rating be in some easily understood analytic form, whereas an overall score might be satisfactory for the last named purpose.

If either the check list or the improved graphic scale proves to be the most efficient, and consequently is adopted, the requirement for a display of the ratee's qualities mentioned above will be met. The forced choice form however, would not provide the desired display. Should the forced choice

rating be adopted nevertheless, provision should be made for an additional rating, for purposes of analysis, on a graphic scale which the rater could show to the ratee and discuss with him.

Second Recommendation

If the first recommendation is not feasible, the less expensive (and also less conclusive) plan recently employed by the Marine Corps, and described herein, should be followed. The rating devices of the Army and the Air Force, suitably edited to eliminate obviously inapplicable items, should be tested with an improved graphic scale against improved criteria. The most effective device from this test group should become the new Navy officer's fitness report.

Third Recommendation

Even if it is impracticable to consider altering the basic features of the present rating system, it would be a distinct step forward to prepare and place in service an improved graphic scale. It would be essential that limited tests to determine reliability be performed but the requirement for validity must be met by giving the scale maximum face validity during design and construction.

Fourth Recommendation

No matter what the final decision may be regarding rating devices, a definite rater training program should be established as soon as practicable as a permanent part of the Navy's educational system. In this case, as for the introduction

of a new rating device, maximum benefit will accrue to the Service only if the initiation of the program is preceded by a careful promotional procedure designed to gain acceptance for the training plan.

The material to be taught in a rater training program has been discussed in an earlier chapter. Rater training courses offering this material should be included in the curricula of the U. S. Naval Academy, The U. S. Naval Schools (General Line) at Newport, R. I. and Monterrey, Calif., and the U. S. Naval ROTC units at civilian colleges and universities. Instructional pamphlets should be prepared and circulated to other Naval activities and, if funds permit, a training moving picture film should be produced. This film would be particularly effective in dramatizing the cycle of, (1) observation of the rates by the rater, (2) recollection by the rater, at rating time, of his observations, and (3) transformation of these recollections into marks on the rating blank. Other aspects of the problem such as the benefit to the Service, and the Nation, which will result from careful and conscientious marking and the harm to the Service, and the Nation, which will result from improper marking of the ratings could be emphasized in a film.

Subsidiary Recommendations

The designers of a rating form for Navy use should take cognizance of certain general considerations which arise from recognition of the principles of good service rating design and

administration which were discussed in Chapter 2, PART II. The proposed actions regarding the more important of these factors are offered in the following paragraphs as subsidiary recommendations.

Information to Be Elicited

The discussion in Chapter 3 of PART II described the difficulties attendant upon the determination of what leaders do, or what is more important, of what aspects of a leader's behavior are significant and are therefore objects of interest on the part of his superiors. The ideal efficiency evaluation device would be designed to elicit information on those significant behaviors, and scale items would be chosen accordingly. Selection of the items is a matter of judgement on an a priori basis and, apparently for some time to come, must remain so.

Authorities in this field are unanimous in the opinion that the items used on a rating scale should be chosen from among those composed by men who will later use the scale in rating their subordinates. This applies no matter whether the projected device will be a graphic scale, a check list, or a forced choice rating form. The assumptions upon which this view is based are, (1) the immediate superiors of the ratees are in the best position to know what behaviors are significant and, (2) having participated in its design, the rater will have more respect for the rating device and will use it more carefully. However, even though the specific items

administration which were discussed in Chapter II. The proposed actions regarding the factors are offered in the following table:

Table 1. Factors influencing the

administration of the

The first factor is the nature of the problem. The second factor is the nature of the organization. The third factor is the nature of the personnel. The fourth factor is the nature of the environment. The fifth factor is the nature of the resources. The sixth factor is the nature of the time. The seventh factor is the nature of the information. The eighth factor is the nature of the communication. The ninth factor is the nature of the decision-making. The tenth factor is the nature of the evaluation. The eleventh factor is the nature of the feedback. The twelfth factor is the nature of the control. The thirteenth factor is the nature of the coordination. The fourteenth factor is the nature of the integration. The fifteenth factor is the nature of the innovation. The sixteenth factor is the nature of the change. The seventeenth factor is the nature of the development. The eighteenth factor is the nature of the growth. The nineteenth factor is the nature of the progress. The twentieth factor is the nature of the success.

The first factor is the nature of the problem. The second factor is the nature of the organization. The third factor is the nature of the personnel. The fourth factor is the nature of the environment. The fifth factor is the nature of the resources. The sixth factor is the nature of the time. The seventh factor is the nature of the information. The eighth factor is the nature of the communication. The ninth factor is the nature of the decision-making. The tenth factor is the nature of the evaluation. The eleventh factor is the nature of the feedback. The twelfth factor is the nature of the control. The thirteenth factor is the nature of the coordination. The fourteenth factor is the nature of the integration. The fifteenth factor is the nature of the innovation. The sixteenth factor is the nature of the change. The seventeenth factor is the nature of the development. The eighteenth factor is the nature of the growth. The nineteenth factor is the nature of the progress. The twentieth factor is the nature of the success.

The first factor is the nature of the problem. The second factor is the nature of the organization. The third factor is the nature of the personnel. The fourth factor is the nature of the environment. The fifth factor is the nature of the resources. The sixth factor is the nature of the time. The seventh factor is the nature of the information. The eighth factor is the nature of the communication. The ninth factor is the nature of the decision-making. The tenth factor is the nature of the evaluation. The eleventh factor is the nature of the feedback. The twelfth factor is the nature of the control. The thirteenth factor is the nature of the coordination. The fourteenth factor is the nature of the integration. The fifteenth factor is the nature of the innovation. The sixteenth factor is the nature of the change. The seventeenth factor is the nature of the development. The eighteenth factor is the nature of the growth. The nineteenth factor is the nature of the progress. The twentieth factor is the nature of the success.

should be obtained from the suggestions of the raters, guidance may be furnished them by specification of the areas in which suggestions are desired.

Significant areas of information. The most important of the significant areas of information are, (a) leadership, (b) performance of duty, (c) special qualifications, and (d) appearance and general conduct. In addition there should be, (1) a list of standard situations in which the rater must indicate the extent to which he would place dependence on the ratee, (2) a specified difficult situation in which the rater should indicate his attitude toward having the ratee serve with him, and, (3) a space for a general evaluational statement and citation of any pertinent commendatory or derogatory material.

Taking a cue from Naval Leadership¹ we find that in the leadership area important items are loyalty up and down, moral and physical courage, honesty and fairness, common sense, good judgement, confidence, initiative, tact, self control, humor, modesty, enthusiasm, ability to delegate wisely, to establish communication up and down, to plan, to implement plans, to control operations, and knowledge of other principles of good organization and management.

There will be much overlap between the leadership and performance of duty areas but the latter should be included nevertheless. It will provide a means of working officers who may happen to be serving in positions requiring a limited dis-

play of leadership qualities. Initiative, ability to plan, to implement plans, to control operations, to delegate wisely are important qualities. Others are enthusiasm, perseverance, accuracy, thoroughness, conscientiousness, and resourcefulness.

The special qualifications section would be intended to record any special aptitudes or abilities which the officer might have developed but which probably would not be on record in the Bureau of Naval Personnel. Such things as adeptness at ship handling or organizing and training gun crews are important to record but are not so treated usually. The final area covers personal neatness and that reasonable attention to small details of regulations and customs which are one of the distinguishing marks of the excellent officer.

The superiority of the descriptive item over the evaluational has been pointed out. Because of this superiority, all items should be constructed to describe the behaviors which will indicate the presence or absence of the various qualities involved.

Specificity of Rating Device

Closely related to the subject of the significant areas of information to be covered, is the question of whether a single rating device can cover adequately all the important qualities which must be possessed by the officer corps of a modern navy. Included in this group of men, one will find in addition to the general line officer (executive), a long list

of specialists in various technological fields, in communication, business and supply, law, the social sciences, and in medicine. In the sense that all Naval officers are executives, they must bring to their duties certain fundamental characteristics common to all branches. However, each of the specialties listed above requires also a different aggregation of peculiar knowledges and skills, and perhaps attitudes to some extent. But in considering the measurement of these special qualities, one finds that he is encroaching on the fields of intelligence testing, and aptitude and achievement testing where service rating has no place.

There is no satisfactory answer to this question. Authorities agree that a rating device should be designed for the specific group which it is intended should be rated by it and they advise that several different forms may be needed to rate the employees of a single commercial firm. Recommendations regarding the specificity of the executive rating form are not so unequivocal, however. This is not surprising when one recalls what has been said in Chapter 3 of PART II concerning the lack of information as to what aspects of an executive's performance are significant for the purposes of evaluation.

It is probable therefore, that a satisfactory answer will not be forthcoming until the findings of studies now in progress become available. These findings may reveal differences (as well as similarities) between the behaviors of general line officers and the various categories of specialists

of specialists in various technical fields, in communica-

tion, business and supply, law, the social sciences, and in

medicine. In the same line all these officers are specialists,

they must bring to their work certain technical character-

istics common to all professions. In every case of the special-

ties listed above requires also a sufficient aggregation of pe-

culiar knowledge and skills, and various attitudes to some

extent. But in considering the requirements of these special-

ties, one must not lose sight of the fact that in the field of

intelligence gathering, and especially in the intelligence

where service training was required.

There is no doubt that the requirements for these special-

ties are not only different from those of the general staff

the specific group which it is intended to serve. It is

and this is why the special requirements for these special-

ties are not only different from those of the general staff

regarding the specialization of the personnel. It is not

so unimportant, however, that it is not possible to have one re-

quirement for all these specialities. It is necessary to

the fact of specialization in the field of intelligence

performance and efficiency. The requirements of intelligence

is in general, however, that the personnel must be

will not be sufficient to have only one type of personnel

progressive technical training. It is necessary to have

others (as well as specialists) who are able to

over the whole field of intelligence gathering.

of such magnitude that the design of special rating blanks for each will be seen as clearly necessary.

Three of the four military rating devices which have been examined make some attempt to secure a rating in the officer's specialty. This feature should be retained and expanded in scope in the new form, insofar as budgetary consideration will permit. Expansion might be accomplished by, (1) devising a basic rating form for all officers to be accompanied by special rating forms for certain classes of specialists, or (2) by giving more space on the single overall form to a description of and rating in a specialty.

If the plan for additional specialist rating blanks is adopted, the specialist officers might be grouped satisfactorily for rating purposes into, (1) technological and scientific specialists, (2) business and supply specialists, and (3) Medical and Dental officers.

Information to be Excluded

As previously discussed, qualities which may be determined by more objective means should not be measured by rating. Moreover, because of the importance of limiting the length and complexity of the form wherever possible, items which require entries that do not contribute information of value in reaching an assessment of the ratee should be omitted.

Length and Complexity

The question of the length of the rating form, the number of items on it, was discussed in Chapter 2 of PART II where

of each magazine that a design of a social rating blank
form will be used as clearly necessary.

Three of the four ratings rating devices which have

been examined were also intended to assist in the
officer's specialty. This device would be obtained and ex-
panded in scope in the new form, intended to be used by the
deviation will result. Information will be furnished by
(1) Deviating a rating which is not in the
compared by special rating form, an official statement of
specialist, or (2) by the use of a single over-
all form to a description of the rating.

If the first rating is not a rating, the rating is
adjusted, the resulting rating will be the rating
for the rating system, (1) the rating and the
rating specialist, (2) the rating and the rating specialist, and
(3) the rating and the rating specialist.

Information to be furnished

As previously discussed, the rating will be deter-
mined by the rating specialist and the rating specialist will
Moreover, the rating specialist will be the rating specialist
company of the rating specialist, the rating specialist
entire that the rating specialist will be the rating specialist
in an assessment of the rating specialist.

Rating and rating

The rating specialist will be the rating specialist
and the rating specialist will be the rating specialist.

it was concluded that the longer forms are likely to be more reliable. However, as mentioned there, the cost and administrability cannot be ignored. To cover specifically each of the qualities mentioned earlier in this chapter would require a minimum of approximately thirty items. This number may seem excessive by the standards of those, who, on the basis of the results of factor analysis, feel that rating scales measure only one or two qualities at most. But, judging from the experience of Probst, thirty items may not be too many. He has reported that the average number of items checked on his scale, which though it lists 101 items specifies that only those which are applicable to the ratee are to be checked, is between twenty and twenty-five.²

It would be desirable to limit the form to only the two sides of a single sheet of paper $8\frac{1}{2}$ inches wide and $14\frac{3}{4}$ inches long, the size of the present Navy fitness report form. The requirement for carbon copies should be eliminated, insofar as possible, as it complicates preparation and filing and increases costs. There appears to be no need for copies because "Incoming (fitness) reports are filed in a jacket of their own. This is available for all personnel actions,..."³

So long as the Navy Regulations provide that prompt submission of fitness reports is a joint responsibility of the ratee and rater, some means of notification to the ratee that the transaction has been accomplished is desirable. The present Navy fitness report form provides a carbon copy of the

biographical section of the report for the ratee. This feature or its equivalent should be retained. Indeed, there is much to be said for furnishing a complete copy of the entire rating to the ratee. With a permanent and complete record of his superiors' judgements of him in his possession, he would be in a much better position to plan action toward self improvement.

Machine Processing

The most efficient method for scoring, sorting, or tabulating a large number of similar reports is the machine method discussed briefly in Chapter 2, PART II. The facility and accuracy with which these operations can be accomplished by machinery render the dependence on older processes unwise.

There has been some experimentation in the Bureau of Naval Personnel with a revision of the present fitness report form "designed to facilitate punching it on an IBM card".⁴ Although the revised form was not adopted, any new design of fitness report definitely should include provisions for machine processing in the Bureau. The Navy cannot afford to ignore the important aid to advanced personnel practices which the technique of machine processing of fitness reports affords. It is important in the unprecedentedly large peacetime Navy of today and would be vastly more important when the Navy is required to expand to meet a national emergency.

REFERENCES

References are arranged numerically by chapters.

PART I

Chapter 1

¹E. N. Hay, "Selling a Rating Plan," Personnel, 18:42, 1941.

²M. J. Jucius, Personnel Management, (Chicago: Richard D. Irwin, 1947), p. 426.

³J. Tiffin, Industrial Psychology, Second Edition, (New York: Prentice-Hall, Inc., 1947), p. 321.

⁴S. D. Marble, "A Performance Basis for Employee Evaluation," Personnel, 18: 218, 1942.

⁵L. D. White, Introduction to the Study of Public Administration, (New York: The Macmillan Company, 1948), p. 420

⁶Tiffin, op. cit., p. 321.

⁷Jucius, op. cit., p. 427.

⁸D. Yoder, Personnel Management and Industrial Relations, (New York: Prentice-Hall, Inc., 1946), p. 337.

⁹Tiffin, op. cit., pp. 330-332.

¹⁰F. Pigors and C. A. Myers, Personnel Administration a Point of View and a Method, First Edition, (New York: McGraw-Hill Book Company, Inc., 1947), p. 171.

¹¹W. F. Mosher and J. D. Kingsley, Public Personnel Administration, Revised Edition, (New York: Harper & Brothers, 1941), p. 481.

¹²Tiffin, op. cit., p. 331.

¹³Jucius, op. cit., p. 427.

¹⁴Register of Commissioned and Warrant Officers of the United States Navy and Marine Corps, January 1, 1949. (Washington: Government Printing Office).

¹⁵United States Navy Regulations, 1948. (Washington: Government Printing Office).

REFERENCES

PART I

Chapter 2

No References

PART II

Chapter 1

¹ D. Yoder, Personnel Management and Industrial Relations, (New York: Prentice-Hall, Inc., 1946), p. 353.

² Naval Leadership, First Edition, (Annapolis, Maryland: U. S. Naval Institute, 1949), p. 84.

³ A. Stagner, Psychology of Personality, Second Edition, (New York: McGraw-Hill Book Company, Inc., 1948), p. 93.

⁴ G. W. Allport and H. S. Odbert, "Trait Names: A Psychological Study", Psychological Monographs, 47: vi, 1936.

⁵ J. Krech and R. S. Crutchfield, Theory and Problems of Social Psychology, First Edition, (New York: McGraw-Hill Book Company, Inc., 1948), p. 77.

⁶ Ibid., p. 94.

⁷ H. A. Murray, "The Effect of Fear upon Estimates of Maliciousness of Other Personalities", Journal of Social Psychology, 4:310-329, 1933.

⁸ C. Leuba and C. Lucas, "The Effects of Attitudes on Descriptions of Pictures", Journal of Experimental Psychology, 35: 517-524, 1945.

⁹ F. Heider, "Social Perception and Phenomenal Causality", Psychological Review, 51: 362-383, 1944.

¹⁰ J. Zillig, "Einstellung und Aussage", Z. Psycho., 100: 88-106, 1928, cited by Krech and Crutchfield, op. cit., p. 105.

¹¹ Krech and Crutchfield, op. cit., pp. 100-151.

(10-11-11)

11

October 11

Washington

11 11 11

October 11

1. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

2. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

3. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

4. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

5. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

6. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

7. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

8. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

9. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

10. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

11. Mr. J. Edgar Hoover, Director, Federal Bureau of Investigation, Washington, D.C.

REFERENCES

PART II

Chapter 1

12 An attitude is similar to but stronger than a belief, being more emotionally loaded and enduring. Krech and Crutchfield make this distinction, op. cit., pp. 151-153.

13 Ibid., p. 125 and p. 188.

14 P. C. Bartlett, "Social Factors in Recall", T. M. Newcomb, E. L. Hartley, and others, Readings in Social Psychology, (New York: Henry Holt and Company, 1947), p. 72.

15 J. M. Levine and G. Murphy, "The Learning and Forgetting of Controversial Material", Newcomb and Hartley, op. cit., pp. 109-115.

16 Krech and Crutchfield, op. cit., p. 191.

17 Ibid., p. 194.

18 H. E. Burtt, Principles of Employment Psychology, Revised Edition, (New York: Harper & Brothers, 1942), p. 392.

19 L. Stockford and H. V. Bissell, "Factors Involved in Establishing a Merit Rating Scale", Personnel, 26: 85-116, 1949. In this article the authors describe extensive experiments incident to the design and construction of a merit rating device. Their investigations involved, among other things, ratings and reratings by 77 supervisors.

20 Ibid., p. 106

21 H. L. Hollingsworth, Judging Human Character, (New York: J. Appleton and Company, 1928), p. 76.

22 Stagner, op. cit., p. 140.

23 W. L. Bissell, "Forced Choice--The New Army Rating System", Personnel Psychology, 3: 376, 1948.

24 L. J. Cronbach, Essentials of Psychological Testing, (New York: Harper & Brothers, 1949), p. 368.

25 J. P. Guilford, Psychometric Methods, First Edition, (New York: McGraw-Hill Book Company, Inc., 1936), p. 272.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Page 10

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-19-2010 BY 60322 UCBAW

... ..

14. I have been advised that the following information is being furnished to the FBI by the Department of Justice:

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-17-2010 BY 60322 UCBAW

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

[illegible]

206, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 264

RECEIVED
JAN 10 1968

DIRECTOR, FBI
WASHINGTON, D.C.

SAC, NEW YORK
FROM SAC, ALBANY
SUBJECT: [illegible]

[Illegible body text follows]

04 20 00 00 00

YORK: 1911

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

REFERENCES

PART II

Chapter 1

- 26 L. B. Greene, Measurements of Human Behavior, (New York: The Odyssey Press, 1941), p. 707.
- 27 Stockford and Bissell, op. cit., p. 105.
- 28 W. V. Bingham, "Halo Valid and Invalid", Journal of Applied Psychology, 23: 228, 1939.
- 29 E. B. Hurlock, "An Evaluation of Certain Incentives Used in School Work", Journal of Educational Psychology, 16: 157, 1925.
- 30 Naval Leadership, op. cit., p. 73.

Chapter 2

- 1 P. M. Symonds, "On The Loss of Reliability in Ratings Due to Coarseness of the Scale", Journal of Experimental Psychology, 7: 456-461, 1924.
- 2 Ibid., p. 460.
- 3 J. P. Guilford, Psychometric Methods, First Edition, (New York: McGraw-Hill Book Company, Inc., 1936), p. 268.
- 4 E. L. Ghiselli and C. W. Brown, Personnel and Industrial Psychology, First Edition, (New York: McGraw-Hill Book Company, Inc., 1948), p. 107.
- 5 M. J. Jucius, Personnel Management, (Chicago: Richard D. Irwin, 1947), p. 448 shows a profile derived from a rating.
- 6 H. E. Burtt, Principles of Employment Psychology, Revised Edition, (New York: Harper & Brothers, 1942), pp. 373-374.
- 7 D. H. Sisson, "Forced Choice--The New Army Rating System," Personnel Psychology, 3: 371-375, 1943.
- 8 J. Tiffin, "Merit Rating: Its Validity and Techniques", American Management Association Personnel Series, Number 100, (New York: American Management Association, 1946), p. 19.

REFERENCES

PART II

Chapter 2

- 9 Burt, op. cit., p. 182.
- 10 S. D. Marble, "A Performance Basis for Employee Evaluation", Personnel, 18: 217-226, 1942.
- 11 E. B. Knauff, "Construction and Use of Weighted Checklist Rating Scales for Two Industrial Situations", Journal of Applied Psychology, 32: 63-70 1946.
- 12 Burt, op. cit., p. 354.
- 13 J. Tiffin and W. Musser, "Weighting Merit Rating Items", Journal of Applied Psychology, 26: 575, 1942.
- 14 J. Tiffin, Industrial Psychology, Second Edition, (New York: Prentice-Hall, Inc., 1947), pp. 501-505.
- 15 Tiffin and Musser, op. cit., p. 583. Also see J. Tiffin, loc. cit.
- 16 Guilford, op. cit., p. 272.
- 17 E. L. Thorndike, Individuality, (Boston: Houghton Mifflin Company, 1911), p. 13.
- 18 D. C. Adkins and others, Construction and Analysis of Achievement Tests, (Washington: Government Printing Office, 1947), pp. 98-103.
- 19 W. E. Mosher and J. D. Kingsley, Public Personnel Administration, Revised Edition, (New York: Harper & Brothers 1941), pp. 494-495.
- 20 Jucius, op. cit., pp. 435 and 440.
- 21 Burt, op. cit., p. 369.
- 22 Guilford, op. cit., p. 278.
- 23 L. Stockford and H. W. Bissell, "Factors Involved In Establishing a Merit Rating Scale", Personnel, 26: 105, 1949.
- 24 Marble, op. cit., p. 220.

APPENDIX

PART II

CHAPTER 2

1. Introduction, pp. 1-10.

2. The History of the United States, pp. 11-100.

3. The Constitution of the United States, pp. 101-200.

4. The Federal Government, pp. 201-300.

5. The State Government, pp. 301-400.

6. The Local Government, pp. 401-500.

7. The Judiciary, pp. 501-600.

8. The Executive, pp. 601-700.

9. The Legislative, pp. 701-800.

10. The Administrative, pp. 801-900.

11. The Social, pp. 901-1000.

12. The Economic, pp. 1001-1100.

13. The Cultural, pp. 1101-1200.

14. The Environmental, pp. 1201-1300.

15. The International, pp. 1301-1400.

16. The Future, pp. 1401-1500.

REFERENCES

PART II

Chapter 2

- 25 L. J. Cronbach, Essentials of Psychological Testing, (New York: Harper & Brothers, 1949), p. 401.
- 26 Adkins, op. cit., p. 169.
- 27 J. Tiffin, "Merit Rating: Its Validity and Techniques", American Management Association Personnel Series, Number 100, (New York: American Management Association, 1946), p. 21.
- 28 C. R. Lawshe, H. C. Kephart, and E. J. McCormick, "The Paired Comparison Method for Rating Performance of Industrial Employees", Journal of Applied Psychology, 33: 69-77, 1949.
- 29 L. L. Thurstone, "The Method of Paired Comparisons for Social Values", Journal of Abnormal and Social Psychology, 21: 334-400, 1927.
- 30 Guilford, op. cit., pp. 217-243.
- 31 Ibid., pp. 223 and 235.
- 32 Lawshe, Kephart, and McCormick, op. cit., p. 76.
- 33 K. D. Greene, Measurements of Human Behavior, (New York: Odyssey Press, 1941), p. 692.
- 34 This discussion of the Man to Man scale is condensed from the excellent treatment of the subject by F. D. Scott, H. C. Clothier, S. B. Mathewson, and W. H. Spriegel, Personnel Management, Third Edition, (New York: McGraw-Hill Book Company, Inc., 1941), pp. 213-224.
- 35 An organization established by a group of thirty important business firms in 1916, see Scott, Clothier, Mathewson, and Spriegel, Ibid., p. 214.
- 36 J. B. Probst, Service Ratings, (Baltimore: Lord Baltimore Press, 1931), pp. 1-94.
- 37 Ibid., p. 80.
- 38 Ibid., pp. 60, 71, and 76.
- 39 Ibid., p. 51.

CHAPTER 2
THE
THEORY

22. U. S. Government, Bureau of Census, 1967
(New York: 1967, p. 100)

23. U. S. Census Bureau, 1967

24. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

25. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

26. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

27. U. S. Census Bureau, 1967

28. U. S. Census Bureau, 1967

29. U. S. Census Bureau, 1967

30. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

31. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

32. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

33. U. S. Census Bureau, 1967
(New York: 1967, p. 100)

34. U. S. Census Bureau, 1967

35. U. S. Census Bureau, 1967

36. U. S. Census Bureau, 1967

REFERENCES

PART II

Chapter 2

- 40 Ibid., p. 68.
- 41 Ibid., p. 54.
- 42 Ibid., p. 53.
- 43 Kneuft, op. cit., p. 65.
- 44 Ibid., p. 69.
- 45 L. D. White, Introduction to the Study of Public Administration, (New York: The Macmillan Company, 1948) p. 418.
- 46 Mosher and Kingsley, op. cit., pp. 492-496.
- 47 J. B. Probet, Measuring and Rating Employee Value, (New York: The Ronald Press Company, 1947), p. 70.
- 48 Guilford, op. cit., p. 279.
- 49 F. F. Bradshaw, The American Council on Education Rating Scale, Its Reliability, Validity, and Use, (New York: Archives of Psychology, Number 119, 1930) p. 58.
- 50 A. V. MacCullough, "Periodic Review of Management Personnel", Personnel, 24: 140-149, 1948.
- 51 D. Yoder, Personnel Management and Industrial Relations, (New York: Prentice-Hall, Inc., 1946), p. 353.
- 52 Tiffin, "Merit Rating: Its Validity and Techniques", op. cit., p. 19.
- 53 Burt, op. cit., p. 396.
- 54 Ibid., p. 441.
- 55 For a report of other experimental evidence showing a similar result, see Chiaelli and Brown, op. cit., p. 109.
- 56 Cisson, op. cit.,
- 57 Ibid.

1954

Figure 6

2000

428 1103 04

44-38861-100

2019-2020

1947 10 10 11 43 11 43 11 43

(Rev. Y-107) (GPO : 1964)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

SECRET (U.S. GOVERNMENT PRINTING OFFICE: 1964 O 348-000)

100-443881-100

[Faint, illegible handwritten notes]

30. The following information is being furnished to you for your information:

1. The first part of the document is a list of names and dates, which appears to be a roster or a list of participants. The names are written in a cursive script, and the dates are written in a more formal, printed style. The list is organized into two columns, with names on the left and dates on the right. The names are: John A. Smith, John B. Smith, John C. Smith, John D. Smith, John E. Smith, John F. Smith, John G. Smith, John H. Smith, John I. Smith, John J. Smith, John K. Smith, John L. Smith, John M. Smith, John N. Smith, John O. Smith, John P. Smith, John Q. Smith, John R. Smith, John S. Smith, John T. Smith, John U. Smith, John V. Smith, John W. Smith, John X. Smith, John Y. Smith, John Z. Smith. The dates are: 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 251

7-10-68

7-10-68

4444 J. Neurosci., September 24, 2008 • 28(39):4439–4446

100

REFERENCES

PART II

Chapter 2

58 L. L. Thurstone, The Reliability and Validity of Tests, (Ann Arbor: Edwards Brothers, 1935), pp. 33-39, cited in Adkins, op. cit., p. 166.

59 Thurstone, op. cit., pp. 46-51, cited in Adkins, op. cit., p. 166.

60 C. M. Lawshe, Principles of Personnel Testing, First Edition, (New York: McGraw-Hill Book Company, Inc., 1948), p. 29.

61 Stockford and Fissell, op. cit., p. 103.

62 R. Ewart, H. L. Tenenbore, and J. Tiffin, "A Factor Analysis of an Industrial Merit Rating Scale", Journal of Applied Psychology, 25: 485, 1941.

63 W. V. Bingham, "Halo Valid and Invalid", Journal of Applied Psychology, 23: 226, 1939.

64 J. B. Probst, Measuring and Rating Employee Value (New York: The Ronald Press Company, 1947), p. 20.

65 Ewart, Tenenbore, and Tiffin, loc. cit.

66 A. D. Halsey, Making and Using Industrial Service Ratings, First Edition, (New York: Harper & Brothers, 1944), pp. 12-13.

67 Yoder, op. cit., pp. 336-337.

68 Probst, op. cit., pp. 4-5, p. 29.

69 W. D. Scott, H. C. Clothier, W. F. Mathewson, and W. H. Spriegel, Personnel Management, Third Edition, (New York: McGraw-Hill Book Co., Inc., 1941), p. 234.

70 T. J. Armstrong, "Talking Your Ratings", Personnel, 26: 112-113, 1943.

71 Sisson, op. cit.

Chapter II

Chapter II

Chapter II

50 E. L. Thompson, The Reliability of the Test, (New York: McGraw-Hill, 1923), pp. 23-24, 27-28, 31-32, 34-35, 37-38, 40-41, 43-44, 46-47, 49-50, 52-53, 55-56, 58-59, 61-62, 64-65, 67-68, 70-71, 73-74, 76-77, 79-80, 82-83, 85-86, 88-89, 91-92, 94-95, 97-98, 100-101, 103-104, 106-107, 109-110, 112-113, 115-116, 118-119, 121-122, 124-125, 127-128, 130-131, 133-134, 136-137, 139-140, 142-143, 145-146, 148-149, 151-152, 154-155, 157-158, 160-161, 163-164, 166-167, 169-170, 172-173, 175-176, 178-179, 181-182, 184-185, 187-188, 190-191, 193-194, 196-197, 199-200, 202-203, 205-206, 208-209, 211-212, 214-215, 217-218, 220-221, 223-224, 226-227, 229-230, 232-233, 235-236, 238-239, 241-242, 244-245, 247-248, 250-251, 253-254, 256-257, 259-260, 262-263, 265-266, 268-269, 271-272, 274-275, 277-278, 280-281, 283-284, 286-287, 289-290, 292-293, 295-296, 298-299, 301-302, 304-305, 307-308, 310-311, 313-314, 316-317, 319-320, 322-323, 325-326, 328-329, 331-332, 334-335, 337-338, 340-341, 343-344, 346-347, 349-350, 352-353, 355-356, 358-359, 361-362, 364-365, 367-368, 370-371, 373-374, 376-377, 379-380, 382-383, 385-386, 388-389, 391-392, 394-395, 397-398, 400-401, 403-404, 406-407, 409-410, 412-413, 415-416, 418-419, 421-422, 424-425, 427-428, 430-431, 433-434, 436-437, 439-440, 442-443, 445-446, 448-449, 451-452, 454-455, 457-458, 460-461, 463-464, 466-467, 469-470, 472-473, 475-476, 478-479, 481-482, 484-485, 487-488, 490-491, 493-494, 496-497, 499-500, 502-503, 505-506, 508-509, 511-512, 514-515, 517-518, 520-521, 523-524, 526-527, 529-530, 532-533, 535-536, 538-539, 541-542, 544-545, 547-548, 550-551, 553-554, 556-557, 559-560, 562-563, 565-566, 568-569, 571-572, 574-575, 577-578, 580-581, 583-584, 586-587, 589-590, 592-593, 595-596, 598-599, 601-602, 604-605, 607-608, 610-611, 613-614, 616-617, 619-620, 622-623, 625-626, 628-629, 631-632, 634-635, 637-638, 640-641, 643-644, 646-647, 649-650, 652-653, 655-656, 658-659, 661-662, 664-665, 667-668, 670-671, 673-674, 676-677, 679-680, 682-683, 685-686, 688-689, 691-692, 694-695, 697-698, 700-701, 703-704, 706-707, 709-710, 712-713, 715-716, 718-719, 721-722, 724-725, 727-728, 730-731, 733-734, 736-737, 739-740, 742-743, 745-746, 748-749, 751-752, 754-755, 757-758, 760-761, 763-764, 766-767, 769-770, 772-773, 775-776, 778-779, 781-782, 784-785, 787-788, 790-791, 793-794, 796-797, 799-800, 802-803, 805-806, 808-809, 811-812, 814-815, 817-818, 820-821, 823-824, 826-827, 829-830, 832-833, 835-836, 838-839, 841-842, 844-845, 847-848, 850-851, 853-854, 856-857, 859-860, 862-863, 865-866, 868-869, 871-872, 874-875, 877-878, 880-881, 883-884, 886-887, 889-890, 892-893, 895-896, 898-899, 901-902, 904-905, 907-908, 910-911, 913-914, 916-917, 919-920, 922-923, 925-926, 928-929, 931-932, 934-935, 937-938, 940-941, 943-944, 946-947, 949-950, 952-953, 955-956, 958-959, 961-962, 964-965, 967-968, 970-971, 973-974, 976-977, 979-980, 982-983, 985-986, 988-989, 991-992, 994-995, 997-998, 1000-1001, 1003-1004, 1006-1007, 1009-1010, 1012-1013, 1015-1016, 1018-1019, 1021-1022, 1024-1025, 1027-1028, 1030-1031, 1033-1034, 1036-1037, 1039-1040, 1042-1043, 1045-1046, 1048-1049, 1051-1052, 1054-1055, 1057-1058, 1060-1061, 1063-1064, 1066-1067, 1069-1070, 1072-1073, 1075-1076, 1078-1079, 1081-1082, 1084-1085, 1087-1088, 1090-1091, 1093-1094, 1096-1097, 1099-1100, 1102-1103, 1105-1106, 1108-1109, 1111-1112, 1114-1115, 1117-1118, 1120-1121, 1123-1124, 1126-1127, 1129-1130, 1132-1133, 1135-1136, 1138-1139, 1141-1142, 1144-1145, 1147-1148, 1150-1151, 1153-1154, 1156-1157, 1159-1160, 1162-1163, 1165-1166, 1168-1169, 1171-1172, 1174-1175, 1177-1178, 1180-1181, 1183-1184, 1186-1187, 1189-1190, 1192-1193, 1195-1196, 1198-1199, 1200-1201, 1203-1204, 1206-1207, 1209-1210, 1212-1213, 1215-1216, 1218-1219, 1221-1222, 1224-1225, 1227-1228, 1230-1231, 1233-1234, 1236-1237, 1239-1240, 1242-1243, 1245-1246, 1248-1249, 1251-1252, 1254-1255, 1257-1258, 1260-1261, 1263-1264, 1266-1267, 1269-1270, 1272-1273, 1275-1276, 1278-1279, 1281-1282, 1284-1285, 1287-1288, 1290-1291, 1293-1294, 1296-1297, 1299-1300, 1302-1303, 1305-1306, 1308-1309, 1311-1312, 1314-1315, 1317-1318, 1320-1321, 1323-1324, 1326-1327, 1329-1330, 1332-1333, 1335-1336, 1338-1339, 1341-1342, 1344-1345, 1347-1348, 1350-1351, 1353-1354, 1356-1357, 1359-1360, 1362-1363, 1365-1366, 1368-1369, 1371-1372, 1374-1375, 1377-1378, 1380-1381, 1383-1384, 1386-1387, 1389-1390, 1392-1393, 1395-1396, 1398-1399, 1400-1401, 1403-1404, 1406-1407, 1409-1410, 1412-1413, 1415-1416, 1418-1419, 1421-1422, 1424-1425, 1427-1428, 1430-1431, 1433-1434, 1436-1437, 1439-1440, 1442-1443, 1445-1446, 1448-1449, 1451-1452, 1454-1455, 1457-1458, 1460-1461, 1463-1464, 1466-1467, 1469-1470, 1472-1473, 1475-1476, 1478-1479, 1481-1482, 1484-1485, 1487-1488, 1490-1491, 1493-1494, 1496-1497, 1499-1500, 1502-1503, 1505-1506, 1508-1509, 1511-1512, 1514-1515, 1517-1518, 1520-1521, 1523-1524, 1526-1527, 1529-1530, 1532-1533, 1535-1536, 1538-1539, 1541-1542, 1544-1545, 1547-1548, 1550-1551, 1553-1554, 1556-1557, 1559-1560, 1562-1563, 1565-1566, 1568-1569, 1571-1572, 1574-1575, 1577-1578, 1580-1581, 1583-1584, 1586-1587, 1589-1590, 1592-1593, 1595-1596, 1598-1599, 1600-1601, 1603-1604, 1606-1607, 1609-1610, 1612-1613, 1615-1616, 1618-1619, 1621-1622, 1624-1625, 1627-1628, 1630-1631, 1633-1634, 1636-1637, 1639-1640, 1642-1643, 1645-1646, 1648-1649, 1651-1652, 1654-1655, 1657-1658, 1660-1661, 1663-1664, 1666-1667, 1669-1670, 1672-1673, 1675-1676, 1678-1679, 1681-1682, 1684-1685, 1687-1688, 1690-1691, 1693-1694, 1696-1697, 1699-1700, 1702-1703, 1705-1706, 1708-1709, 1711-1712, 1714-1715, 1717-1718, 1720-1721, 1723-1724, 1726-1727, 1729-1730, 1732-1733, 1735-1736, 1738-1739, 1741-1742, 1744-1745, 1747-1748, 1750-1751, 1753-1754, 1756-1757, 1759-1760, 1762-1763, 1765-1766, 1768-1769, 1771-1772, 1774-1775, 1777-1778, 1780-1781, 1783-1784, 1786-1787, 1789-1790, 1792-1793, 1795-1796, 1798-1799, 1800-1801, 1803-1804, 1806-1807, 1809-1810, 1812-1813, 1815-1816, 1818-1819, 1821-1822, 1824-1825, 1827-1828, 1830-1831, 1833-1834, 1836-1837, 1839-1840, 1842-1843, 1845-1846, 1848-1849, 1851-1852, 1854-1855, 1857-1858, 1860-1861, 1863-1864, 1866-1867, 1869-1870, 1872-1873, 1875-1876, 1878-1879, 1881-1882, 1884-1885, 1887-1888, 1890-1891, 1893-1894, 1896-1897, 1899-1900, 1902-1903, 1905-1906, 1908-1909, 1911-1912, 1914-1915, 1917-1918, 1920-1921, 1923-1924, 1926-1927, 1929-1930, 1932-1933, 1935-1936, 1938-1939, 1941-1942, 1944-1945, 1947-1948, 1950-1951, 1953-1954, 1956-1957, 1959-1960, 1962-1963, 1965-1966, 1968-1969, 1971-1972, 1974-1975, 1977-1978, 1980-1981, 1983-1984, 1986-1987, 1989-1990, 1992-1993, 1995-1996, 1998-1999, 2000-2001, 2003-2004, 2006-2007, 2009-2010, 2012-2013, 2015-2016, 2018-2019, 2021-2022, 2024-2025, 2027-2028, 2030-2031, 2033-2034, 2036-2037, 2039-2040, 2042-2043, 2045-2046, 2048-2049, 2051-2052, 2054-2055, 2057-2058, 2060-2061, 2063-2064, 2066-2067, 2069-2070, 2072-2073, 2075-2076, 2078-2079, 2081-2082, 2084-2085, 2087-2088, 2090-2091, 2093-2094, 2096-2097, 2099-2100, 2102-2103, 2105-2106, 2108-2109, 2111-2112, 2114-2115, 2117-2118, 2120-2121, 2123-2124, 2126-2127, 2129-2130, 2132-2133, 2135-2136, 2138-2139, 2141-2142, 2144-2145, 2147-2148, 2150-2151, 2153-2154, 2156-2157, 2159-2160, 2162-2163, 2165-2166, 2168-2169, 2171-2172, 2174-2175, 2177-2178, 2180-2181, 2183-2184, 2186-2187, 2189-2190, 2192-2193, 2195-2196, 2198-2199, 2200-2201, 2203-2204, 2206-2207, 2209-2210, 2212-2213, 2215-2216, 2218-2219, 2221-2222, 2224-2225, 2227-2228, 2230-2231, 2233-2234, 2236-2237, 2239-2240, 2242-2243, 2245-2246, 2248-2249, 2251-2252, 2254-2255, 2257-2258, 2260-2261, 2263-2264, 2266-2267, 2269-2270, 2272-2273, 2275-2276, 2278-2279, 2281-2282, 2284-2285, 2287-2288, 2290-2291, 2293-2294, 2296-2297, 2299-2300, 2302-2303, 2305-2306, 2308-2309, 2311-2312, 2314-2315, 2317-2318, 2320-2321, 2323-2324, 2326-2327, 2329-2330, 2332-2333, 2335-2336, 2338-2339, 2341-2342, 2344-2345, 2347-2348, 2350-2351, 2353-2354, 2356-2357, 2359-2360, 2362-2363, 2365-2366, 2368-2369, 2371-2372, 2374-2375, 2377-2378, 2380-2381, 2383-2384, 2386-2387, 2389-2390, 2392-2393, 2395-2396, 2398-2399, 2400-2401, 2403-2404, 2406-2407, 2409-2410, 2412-2413, 2415-2416, 2418-2419, 2421-2422, 2424-2425, 2427-2428, 2430-2431, 2433-2434, 2436-2437, 2439-2440, 2442-2443, 2445-2446, 2448-2449, 2451-2452, 2454-2455, 2457-2458, 2460-2461, 2463-2464, 2466-2467, 2469-2470, 2472-2473, 2475-2476, 2478-2479, 2481-2482, 2484-2485, 2487-2488, 2490-2491, 2493-2494, 2496-2497, 2499-2500, 2502-2503, 2505-2506, 2508-2509, 2511-2512, 2514-2515, 2517-2518, 2520-2521, 2523-2524, 2526-2527, 2529-2530, 2532-2533, 2535-2536, 2538-2539, 2541-2542, 2544-2545, 2547-2548, 2550-2551, 2553-2554, 2556-2557, 2559-2560, 2562-2563, 2565-2566, 2568-2569, 2571-2572, 2574-2575, 2577-2578, 2580-2581, 2583-2584, 2586-2587, 2589-2590, 2592-2593, 2595-2596, 2598-2599, 2600-2601, 2603-2604, 2606-2607, 2609-2610, 2612-2613, 2615-2616, 2618-2619, 2621-2622, 2624-2625, 2627-2628, 2630-2631, 2633-2634, 2636-2637, 2639-2640, 2642-2643, 2645-2646, 2648-2649, 2651-2652, 2654-2655, 2657-2658, 2660-2661, 2663-2664, 2666-2667, 2669-2670, 2672-2673, 2675-2676, 2678-2679, 2681-2682, 2684-2685, 2687-2688, 2690-2691, 2693-2694, 2696-2697, 2699-2700, 2702-2703, 2705-2706, 2708-2709, 2711-2712, 2714-2715, 2717-2718, 2720-2721, 2723-2724, 2726-2727, 2729-2730, 2732-2733, 2735-2736, 2738-2739, 2741-2742, 2744-2745, 2747-2748, 2750-2751, 2753-2754, 2756-2757, 2759-2760, 2762-2763, 2765-2766, 2768-2769, 2771-2772, 2774-2775, 2777-2778, 2780-2781, 2783-2784, 2786-2787, 2789-2790, 2792-2793, 2795-2796, 2798-2799, 2800-2801, 2803-2804, 2806-2807, 2809-2810, 2812-2813, 2815-2816, 2818-2819, 2821-2822, 2824-2825, 2827-2828, 2830-2831, 2833-2834, 2836-2837, 2839-2840, 2842-2843, 2845-2846, 2848-2849, 2851-2852, 2854-2855, 2857-2858, 2860-2861, 2863-2864, 2866-2867, 2869-2870, 2872-2873, 2875-2876, 2878-2879, 2881-2882, 2884-2885, 2887-2888, 2890-2891, 2893-2894, 2896-2897, 2899-2900, 2902-2903, 2905-2906, 2908-2909, 2911-2912, 2914-2915, 2917-2918, 2920-2921, 2923-2924, 2926-2927, 2929-2930, 2932-2933, 2935-2936, 2938-2939, 2941-2942, 2944-2945, 2947-2948, 2950-2951, 2953-2954, 2956-2957, 2959-2960, 2962-2963, 2965-2966, 2968-2969, 2971-2972, 2974-2975, 2977-2978, 2980-2981, 2983-2984, 2986-2987, 2989-2990, 2992-2993, 2995-2996, 2998-2999, 3000-3001, 3003-3004, 3006-3007, 3009-3010, 3012-3013, 3015-3016, 3018-3019, 3021-3022, 3024-3025, 3027-3028, 3030-3031, 3033-3034, 3036-3037, 3039-3040, 3042-3043, 3045-3046, 3048-3049, 3051-3052, 3054-3055, 3057-3058, 3060-3061, 3063-3064, 3066-3067, 3069-3070, 3072-3073, 3075-3076, 3078-3079, 3081-3082, 3084-3085, 3087-3088, 3090-3091, 3093-3094, 3096-3097, 3099-3100, 3102-3103, 3105-3106, 3108-3109, 3111-3112, 3114-3115, 3117-3118, 3120-3121, 3123-3124, 3126-3127, 3129-3130, 3132-3133, 3135-3136, 3138-3139, 3141-3142, 3144-3145, 3147-3148, 3150-3151, 3153-3154, 3156-3157, 3159-3160, 3162-3163, 3165-3166, 3168-3169, 3171-3172, 3174-3175, 3177-3178, 3180-3181, 3183-3184, 3186-3187, 3189-3190, 3192-3193, 3195-3196, 3198-3199, 3200-3201, 3203-3204, 3206-3207, 3209-3210, 3212-3213, 3215-3216, 3218-3219, 3221-3222, 3224-3225, 3227-3228, 3230-3231, 3233-3234, 3236-3237, 3239-3240, 3242-3243, 3245-3246, 3248-3249, 3251-3252, 3254-3255, 3257-3258, 3260-3261, 3263-3264, 3266-3267, 3269-3270, 3272-3273, 3275-3276, 3278-3279, 3281-3282, 3284-3285, 3287-3288, 3290-3291, 3293-3294, 3296-3297, 3299-3300, 3302-3303, 3305-3306, 3308-3309, 3311-3312, 3314-3315, 3317-3318, 3320-3321, 3323-3324, 3326-3327, 3329-3330, 3332-3333, 3335-3336, 3338-3339, 3341-3342, 3344-3345, 3347-3348, 3350-3351, 3353-3354, 3356-3357, 3359-3360, 3362-3363, 3365-3366, 3368-3369, 3371-3372, 3374-3375, 3377-3378, 3380-3381, 3383-3384, 3386-3387, 3389-3390, 3392-3393, 3395-3396, 3398-3399, 3400-3401, 3403-3404, 3406-3407, 3409-3410, 3412-3413, 3415-3416, 3418-3419, 3421-3422, 3424-3425, 3427-3428, 3430-3431, 3433-3434, 3436-3437, 3439-3440, 3442-3443, 3445-3446, 3448-3449, 3451-3452, 3454-3455, 3457-3458, 3460-3461, 3463-3464, 3466-3467, 3469-3470, 3472-3473, 3475-3476, 3478-3479, 3481-3482, 3484-3485, 3487-3488, 3490-3491, 3493-3494, 3496-3497, 3499-3500, 3502-3503, 3505-3506, 3508-3509, 3511-3512, 3514-3515, 3517-3518, 3520-3521, 3523-352

REFERENCES

PART II

Chapter 2

72 R. J. Wherry and D. H. Fryer, "Buddy Ratings: Popularity Contest or Leadership Criteria", Personnel Psychology, 2: 147-159, 1949.

73 R. H. Bittner, "Developing an Industrial Merit Rating Procedure", Personnel Psychology, 1: 409, 1948.

74 Halsey, op. cit., p. 119.

75 Probst, op. cit., p. 43.

76 J. B. Probst, Service Ratings, (Baltimore: Lord Baltimore Press, 1931), p. 34.

77 Yoder, op. cit., p. 359.

78 L. D. White, Introduction to the Study of Public Administration, Third Edition, (New York: The Macmillan Co., 1948), p. 419.

79 Ibid.

80 R. Bittner, "Developing an Employee Merit Rating Procedure", Personnel, 25: 283, 1949.

81 A. S. Knowles, "Merit Rating and Labor Management", Personnel, 17: 33, 1940.

A. S. Knowles, "Merit Rating of Supervisors Foremen and Department Heads", Personnel, 17: 129, 1940.

82 J. Tiffin, "Merit Rating: Its Validity and Techniques", American Management Association Personnel Series, Number 100, (New York: American Management Association, 1946), p. 16.

83 R. S. Driver, "Training as a Means of Improving Employee Performance Rating", Personnel, 18: 369, 1942.

84 R. H. Bittner, "Developing an Industrial Merit Rating Procedure", Personnel Psychology, 1: 421-422, 1948.

85 Driver, loc. cit.

TABLE II
Page 2

72 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

73 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

74 M. J. "Theory of the ..."

75 M. J. "Theory of the ..."

76 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

77 M. J. "Theory of the ..."

78 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

79 M. J. "Theory of the ..."

80 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

81 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

82 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

83 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

84 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

85 M. J. "Theory of the ..."
Index of ...
 1947-1948, 1949.

86 M. J. "Theory of the ..."

REFERENCES

PART II

Chapter 2

86 Stockford and Bissell, op. cit., pp. 115-116.

87 The forced choice rating was only briefly mentioned in this chapter. A more complete discription and evaluation of a particular rating device of the forced choice type will be found in Chapter 4 of PART II.

88 Yoder, op. cit., pp. 365-369.

Chapter 3

1 D. Yoder, Personnel Management and Industrial Relations, (New York: Prentice-Hall, Inc., 1946), p. 369.

2 H. E. Burt, Principles of Employment Psychology, Revised Edition, (New York: Harper & Brothers, 1942), p. 558.

3 J. B. Probst, Measuring and Rating Employee Value, (New York: The Ronald Press Company, 1947), pp. 73-74.

4 L. Stockford and H. B. Bissell, "Factors Involved in Establishing a Merit Rating Scale", Personnel, 26: 108-109, 1949.

5 M. W. Richardson and G. F. Kuder, "Making a Rating Scale that Measures", The Personnel Journal, 12: 36-39, 1933.

6 C. H. Lawshe, N. C. Kephart, and W. J. McCormick, "The Paired Comparison Method for Rating Performance of Industrial Employees", Journal of Applied Psychology, 33: 69-77, 1949.

7 Reported in H. L. Bills, "Merit Rating and Seniority", American Management Association Personnel Series, Number 127, (New York: American Management Association, 1949), p. 39.

8 C. H. Lawshe, Principles of Personnel Testing, First Edition, (New York: McGraw-Hill Book Company, Inc., 1948) p. 176.

9 L. J. Cronbach, Essentials of Psychological Testing, (New York: Harper & Brothers, 1949), p. 401.

APPENDIX

Part II

Chapter 3

86. Technical and Legal Aspects of the Problem

87. The former chapter, which was only briefly mentioned in this chapter, has now been expanded into a separate chapter of a technical nature, dealing with the legal aspects of the problem in Chapter 4 of Part II.

88. Legal Aspects of the Problem

Chapter 4

1. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

2. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

3. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

4. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

5. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

6. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

7. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

8. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

9. Legal Aspects of the Problem (New York: Technical Aspects of the Problem, 1949).

REFERENCES

PART II

Chapter 3

10 Probst, op. cit.

11 E. B. Knauff, "Construction and Use of Weighted Check List Rating Scales for Two Industrial Situations", Journal of Applied Psychology, 32: p. 65 and p. 69.

12 Development of the sociometric method is attributed to J. L. Moreno by S. Stagner, Psychology of Personality, Second Edition, (New York: McGraw-Hill Book Company, Inc., 1948), p. 28. Stagner refers to J. L. Moreno, "Who Shall Survive?" Nervous Mental Disability Monograph Series, Number 58.

13 R. J. Sherry and D. H. Fryer, "Buddy Ratings: Popularity Contest or Leadership Criteria", Personnel Psychology, 2: 147-159, 1949.

14 D. D. Fisson, "Forced Choice--The New Army Rating System", Personnel Psychology, 1: 368-369, 1948.

15 Sherry and Fryer, op. cit.

16 Methodological Investigation of the Forced Choice Technique Utilizing the Officer Description and the Officer Evaluation Blanks, Study #701, PR 4061-04, (Washington: Department of the Army, 6 July, 1948), p. 5.

17 H. K. Littner, "Developing an Industrial Merit Rating Procedure", Personnel Psychology, 1: 410, 1948.

18 Ibid., p. 409.

19 A letter from Dr. E. G. Brundage, Head, Classification and Field Research Branch, Bureau of Naval Personnel, Department of the Navy, Washington, D.C., File No. Pers-152-af, Serial H319, 6 October, 1949.

20 Selection boards are committees of senior officers organized from time to time to consider officers eligible, by reason of seniority and experience, for promotion and to select from those considered, those who are to be promoted.

REFERENCES

PART II

Chapter 3

21 Flag rank is the term applied to ranks in the Navy above that of Captain.

22 See C. L. Shartle, Leadership and Executive Performance, Personnel, 25: 370-380, 1949.

23 Personnel Research Board, The Ohio State University, Studies in Naval Leadership, Technical Report, (Columbus, Ohio: The Ohio State University Research Foundation, June 15, 1949), p. 8.

Chapter 4

1 A letter from Dr. E. G. Brundage, Head, Classification and Field Research Branch, Bureau of Naval Personnel, Department of the Navy, Washington, D.C., File No. Pers-152-slf, Serial H949, 5 April, 1950.

2 An Evaluation of the Report on the Fitness of Officers, P-4114-dmc, Project No. 427, (Washington: Training, Standards and Curriculum Division, Bureau of Naval Personnel, Department of the Navy, July, 1945), p. 1.

3 Lieutenant Commander H. . Cagle, "The Navy's Fitness Report System", United States Naval Institute Proceedings, 73: 700, July, 1947.

4 Construction of Three Measures for Instructor Evaluation, Report 363-1-S, RMH Project 128, (New York: Richardson, Fellows, Henry, and Company, Inc., July 20, 1946), p. 15.

5 D. L. Lissou, "Forced Choice--The New Army Rating System", Personnel Psychology, 1: 365-381, Autumn, 1948.

6 Ibid., pp. 368-380.

7 Ibid., p. 389.

8 Ibid., p. 374.

CONFIDENTIAL

Page 11

Chapter 3

31 This item is the same as the one in the Navy above the of the...

32 See E. J. ...
Source: ...

33 ...
The ...

p. 2.

Chapter 4

34 ...
Department of ...

35 ...
The Navy, ...

36 ...
The ...

37 ...
Below ...

38 ...
The ...

39 ...

40 ...

41 ...

REFERENCES

PART II

Chapter 4

⁹ Ibid., p. 367.

¹⁰ The 1948 Standardization of Officer Efficiency Report, WD AGO FORM 67-1, WD AGO PM Report 799, (Washington: Adjutant General's Office, Department of the Army), 7 June, 1949.

¹¹ Pisson, op. cit., p. 375.

¹² H. O. Preston, The Development of a Procedure for Evaluating Officers in the United States Air Force, (Pittsburgh: American Institute for Research, 7 July, 1948), pp. 1-67.

¹³ Ibid., Technical Appendices and Notes, p. F-17.

¹⁴ Preston, op. cit., p. 66.

¹⁵ A Memorandum issued by the Procedures Analysis Office of the Office of the Director of Personnel, Headquarters U. S. Marine Corps, serial 2295-70 MC-1430-ntp, dated November 10, 1949, p. 1.

PART III

Chapter 1

¹ J. C. Flanagan, "A New Approach to Evaluating Personnel," Personnel, 26: 37, 1949.

Chapter 2

¹ Naval Leadership, First Edition, (Annapolis, Maryland: U. S. Naval Institute, 1949), pp. 195-246.

² J. E. Probst, Measuring and Rating Employee Value, (New York: The Donald Press Company, 1947), p. 37.

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

1943

INTERLUCE

PART III

Chapter 2

⁵ From a letter written by Dr. H. G. Brundage, Head, Classification and Field Research Branch, Bureau of Naval Personnel, Department of the Navy, Washington, D.C., File No. Pers-132-slf, Serial H649, 5 April, 1950.

⁴ Ibid.

Page 1

Page 2

Page 3

3 From a letter dated 11 March 1954
Classification: CONFIDENTIAL
Source: Department of Defense
Reference: OASD, 100-1000000
Date: 11 March 1954
4 100-1000000

100

100

BIBLIOGRAPHY

A. BOOKS

- Adkins, D. C., and others, Construction and Analysis of Achievement Tests. Washington: Government Printing Office, 1947. 202 pp.
- Bartlett, F. C., "Social Factors in Recall", pp. 69-76. / T. M. Newcomb, E. L. Hartley, and others, Readings in Social Psychology. New York: Henry Holt and Company, 1947. 688 pp.
- Burt, H. E., Principles of Employment Psychology, Revised Edition. New York: Harper & Brothers, 1942. 568 pp.
- Cleason, G. U. and C. W. Mason, Executive Ability, Its Discovery and Development. Yellow Springs, Ohio: Antioch Press, 1946. 540 pp.
- Cronbach, L. J., Essentials of Psychological Testing. New York: Harper & Brothers, 1949. 475 pp.
- Ghiselli, E. E. and C. W. Brown, Personnel and Industrial Psychology, First Edition. New York: McGraw-Hill Book Company, Inc., 1948. 475 pp.
- Greene, E. B., Measurements of Human Behavior. New York: Odyssey Press, 1941. 777 pp.
- Guilford, J. P., Psychometric Methods, First Edition. New York: McGraw-Hill Book Company, Inc., 1936. 566 pp.
- Halsey, G. D., Making and Using Industrial Service Ratings, First Edition. New York: Harper & Brothers, 1944. 149 pp.
- Hollingsworth, H. L., Judging Human Character. New York: D. Appleton and Company, 1928. 268 pp.
- Jucius, M. J., Personnel Management. Chicago: Richard D. Irwin, Inc., 1947. 696 pp.
- Neuch, D. and A. J. Cruttenfield, Theory and Problems of Social Psychology, First Edition. New York: McGraw-Hill Book Company, Inc., 1948. 639 pp.
- Lawshe, C. H., Principles of Personnel Testing, First Edition. New York: McGraw-Hill Book Company, Inc., 1948. 227 pp.
- Levine, J. M. and G. Murphy, "The Learning and Forgetting of Controversial Material", pp. 103-111, T. M. Newcomb, E. L. Hartley, and others, Readings in Social Psychology. New York: Henry Holt and Company, 1947. 688 pp.

Adkins, J. C. ...
ment ...
NOT ...

Barlett, J. C. ...
Newcomb, ...
Psychology, ...

Bart, J. ...
Editor ...

Cleason, C. ...
and ...
BAC ...

Crombach, J. ...
Harper ...

Chaselli, ...
Chicago ...
Hany, ...

Freese, ...
Ogden, ...

Gallford, ...
York ...

Halsey, ...
Liter ...

Hollingsworth, ...
Apparatus ...

Lucina, ...
Inc., ...

Reed, ...
Patent ...
Dany, ...

Lewis, ...
No ...

Levin, ...
...
...

BIBLIOGRAPHY

- Mosher, W. E. and J. D. Kingsley, Public Personnel Administration, Revised Edition. New York: Harper & Brothers, 1941. 671 pp.
- Naval Leadership, First Edition. Annapolis, Maryland: U. S. Naval Institute, 1949. 324 pp.
- Pigors, P. and C. A. Myers, Personnel Administration a Point of View and a Method, First Edition. New York: McGraw-Hill Book Company, Inc., 1947. 553 pp.
- Probst, J. D., Service Ratings. (Baltimore: Lord Baltimore Press, 1931. 94 pp.
- Probst, J. D., Measuring and Rating Employee Value. New York: The Ronald Press Company, 1947. 156 pp.
- Scott, W. D., R. C. Clothier, E. E. Mathewson, and J. R. Spriegel, Personnel Management, Third Edition. New York: McGraw-Hill Book Company, Inc., 1941. 589 pp.
- Stagner, R., Psychology of Personality, Second Edition. New York: McGraw-Hill Book Company, Inc., 1948. 485 pp.
- Thorndike, L. L., Individuality. Boston: Houghton Mifflin Company, 1911. 56 pp.
- Tiffin, J., Industrial Psychology, Second Edition. New York: Prentice-Hall, Inc., 1947. 533 pp.
- White, L. D., Introduction to the study of Public Administration, Third Edition. New York: The Macmillan Company, 1948. 612 pp.
- Yoder, D., Personnel Management and Industrial Relations. New York: Prentice-Hall, Inc., 1946. 845 pp.

B. PERIODICAL ARTICLES

- Armstrong, T. C., "Talking Your Ratings", Personnel, 20: 112-113, 1943.
- Bingham, L. V., "Half Valid and Invalid", Journal of Applied Psychology, 23: 221-228, 1939.
- Bittner, R. M., "Developing an Industrial Merit Rating Procedure", Personnel Psychology, 1: 403-432, 1948.

MINUTES

Mooney, J. H. and J. H. Mooney, Jr.
Mooney, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Naval Leadership, J. H. Mooney, Jr.
Naval Leadership, J. H. Mooney, Jr.
 1911. 671 pp.

Figora, J. and J. H. Mooney, Jr.
Figora, J. and J. H. Mooney, Jr.
 1911. 671 pp.

Proctor, J. H. and J. H. Mooney, Jr.
Proctor, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Proctor, J. H. and J. H. Mooney, Jr.
Proctor, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Scott, J. H. and J. H. Mooney, Jr.
Scott, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Stagner, W. H. and J. H. Mooney, Jr.
Stagner, W. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Thornbake, J. H. and J. H. Mooney, Jr.
Thornbake, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Witt, J. H. and J. H. Mooney, Jr.
Witt, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

White, J. H. and J. H. Mooney, Jr.
White, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Yoder, J. H. and J. H. Mooney, Jr.
Yoder, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Armstrong, J. H. and J. H. Mooney, Jr.
Armstrong, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Binkley, J. H. and J. H. Mooney, Jr.
Binkley, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

Wheeler, J. H. and J. H. Mooney, Jr.
Wheeler, J. H. and J. H. Mooney, Jr.
 1911. 671 pp.

BIBLIOGRAPHY

- Bittner, R. H., "Developing an Employee Merit Rating Procedure", Personnel, 25: 278-290, 1949.
- Cagle, M. W., Lieutenant Commander, USN., "The Navy's Fitness Report System", United States Naval Institute Proceedings, 73: 779-781, 1947.
- Driver, R. S., "Training as a Means of Improving Employee Performance Rating", Personnel, 18: 364-370, 1942.
- Ewart, E., S. L. Seashore, and J. Tiffin, "A Factor Analysis of an Industrial Merit Rating Scale", Journal of Applied Psychology, 26: 481-486, 1941.
- Flanagan, J. C., "A New Approach to Evaluating Personnel", Personnel, 26: 35-42, 1949.
- Hay, E. H., "Selling a Rating Plan", Personnel, 18: 42-48, 1941.
- Heider, F., "Social Perception and Phenomenal Causality", Psychological Review, 51: 358-374, 1944.
- Hill, R. L., "Efficiency Ratings", Personnel Journal, 15: 330-332, 1937.
- Hurlock, E. B., "An Evaluation of Certain Incentives Used in School Work", Journal of Educational Psychology, 16: 145-159, 1925.
- Knauft, E. D., "Construction and Use of Weighted Check List Rating Scales for Two Industrial Situations", Journal of Applied Psychology, 32: 63-70, 1946.
- Knowles, A. S., "Merit Rating and Labor Management", Personnel, 17: 29-42, 1940.
- Knowles, A. S., "Merit Rating of Supervisors, Foremen, and Department Heads", Personnel, 17: 117-133, 1940.
- Lawshe, C. R., N. C. Kephart, and L. J. McCormick, "The Paired Comparison Method for Rating Performance of Industrial Employees", Journal of Applied Psychology, 33: 69-77, 1949.
- Leuba, C. and C. Lucas, "The Effects of Attitudes on Descriptions of Pictures", Journal of Experimental Psychology, 35: 517-526, 1945.
- MacCullough, A. V., "Periodic Review of Management Personnel", Personnel, 24: 140-149, 1947.

DIRECTORY

Bickner, R. W., "Development of the Human Brain", Journal of Neurology, 1947, 150: 1-10.

Cable, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Driver, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Hart, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Flanagan, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Hay, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Heider, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Hill, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Hurlock, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Kennedy, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Knowles, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Knowles, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Lawrence, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

Levine, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

MacDonald, R. W., "The Human Brain", Journal of Neurology, 1947, 150: 1-10.

BIBLIOGRAPHY

- Marble, S. D., "A Performance Basis for Employee Evaluation", Personnel, 18: 217-226, 1942.
- Murray, H. A., "The Effect of Fear Upon Estimates of Maliciousness of Other Personalities", Journal of Social Psychology, 4: 310-329, 1933.
- Richardson, M. W. and G. F. Kuder, "Making a Rating Scale That Measures", Personnel Journal, 12: 36-40, 1933.
- Rundquist, E. A. and H. H. Bittner, "A Merit Rating Procedure Developed by and For the Waters", Personnel, 26: 273-283, 1950.
- Shartle, C. L., "Leadership and Executive Performance", Personnel, 25: 370-390, 1949.
- Sisson, D. L., "Forced Choice--The New Army Rating System", Personnel Psychology, 1: 365-381, 1948.
- Stockford, L. and H. V. Bissell, "Factors Involved in Establishing a Merit Rating Scale", Personnel, 26: 85-110, 1949.
- Symonds, P. K., "On the Loss of Reliability in Ratings Due to Coarseness of the Scale", Journal of Experimental Psychology, 7: 456-461, 1924.
- Thurstone, L. L., "The Method of Paired Comparisons for Social Values", Journal of Abnormal and Social Psychology, 21: 384-400, 1927.
- Tiffin, J. and L. Mussen, "Weighting Merit Rating Items," Journal of Applied Psychology, 26: 575-583, 1942.
- Wherry, R. J. and J. H. Fryer, "Buddy Ratings: Popularity Contest or Leadership Criteria", Personnel Psychology, 2: 147-159, 1949.

C. OFFICIAL PUBLICATION

An Evaluation of the Report on the Fitness of Officers,
P-4114-dmc, Project No. 427. Washington: Training Standards and Curriculum Division, Bureau of Naval Personnel, Department of the Navy, July, 1945. 13 pp.

Methodological Investigation of the Forced Choice Technique Utilizing the Officer Description and the Officer Evaluation Blanks, Study #701, PR 4061-C4. Washington:

REVISION 11

Marble, J. L., "A Comprehensive Guide to the Marble Industry", 1967, 10: 217-22, 1967.

Murray, H. A., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Richardson, M. J., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Rundquist, J. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Shurtle, C. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Stinson, D. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Stoddard, L. H., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Symonds, J. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Thurston, L. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Tiffin, J. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Therby, J. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Thurston, L. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

Thurston, L. L., "The History of the Marble Industry in the United States", 1967, 10: 217-22, 1967.

BIBLIOGRAPHY

Adjutant General's Office, Department of the Army, 6 July, 1948. 17 pp.

Register of Commissioned and Warrant Officers of the United States Navy and Marine Corps, January 1, 1949. Washington: Government Printing Office. 1447 pp.

The 1948 Standardization of Officer Efficiency Report, WD AGO FORM 67-1, WD AGO PHS Report 799, Washington: Adjutant General's Office, Department of the Army, 7 June, 1949. 28 pp.

United States Navy Regulations, 1948. Washington: Government Printing Office. 403 pp.

D. PARTS OF A SERIES

Allport, G. W. and H. S. Odbert, "Trait Names: A Psycholexical Study", Psychological Monographs, Psychological Review Publications, Volume 47, Number 211. Princeton: Psychological Review Company, 1936. 171 pp.

Bills, H. L., "Merit Rating and Seniority", American Management Association Personnel Series, Number 127. New York: American Management Association, 1945. pp 33-39.

Bradshaw, F. F., "The American Council on Education Rating Scale, Its Reliability, Validity, and Use. New York: Archives of Psychology, Number 119, 1930. 90 pp.

Kidder, J. T., Employee Rating, Studies in Personnel Policy, National Industrial Conference Board, Number 39, 1942. 119 pp.

Tiffin, J., "Merit Rating: Its Validity and Techniques", American Management Association Personnel Series, Number 100. New York: American Management Association, 1948. pp. 14-23.

E. PUBLICATIONS OF LEARNED ORGANIZATIONS

Construction of Three Measures for Instructor Evaluation, Interim Report on Educational Research Project, Report 393-1-5. New York: Richardson, Bellows, Henry, & Company, Inc., 20 July, 1948. 44 pp.

REFERENCE

Adjutant General's Office, Department of the Army, 6 July 1945. IV pp.

Register of Commissioned and Warrant Officers of the United States Army and Marine Corps, January 1, 1945. Washington: Government Printing Office, 1945. 127 pp.

The 1945 Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

United States Army Regulations, 1945. Washington: Government Printing Office, 1945. 127 pp.

B. PART 1

Alford, G. W. M. "The Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

Bills, H. M. "The Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

Brashers, J. T. "The Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

Kidder, L. W. "The Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

Triffin, G. "The Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

Continuation of the Standardization of Officer Efficiency Report, WO 100 Form 87-1, 10 Apr 1945. Washington: Adjutant General's Office, 1945. 127 pp.

BIBLIOGRAPHY

Preston, H. O., The Development of a Procedure for Evaluating Officers in the United States Air Force, Technical Appendices and Notes. Pittsburgh: American Institute for Research, 7 July, 1948. 231 pp.

Personnel Research Board, The Ohio State University, Studies in Naval Leadership, Technical Report. Columbus, Ohio: The Ohio State University Research Foundation, June 15, 1949. 37 pp.

P. UNPUBLISHED MATERIALS

Base, G. S., A Rating Scale for Marine Non-Commissioned Officers of the First Three Pay Grades, (unpublished Master's thesis, The Ohio State University, Columbus, Ohio, 1947), 76 pp.

Samples, W. G., A Study of Merit Rating Methods for Professional Employees, (unpublished Master's thesis, The Ohio State University, Columbus, Ohio, 1948), 37 pp.

1940. 07 20.
The Ohio State University
in Naval Log and
Potomac Research Fund, for the purpose of

[illegible]

APPENDIX A

SAMPLES OF TYPES OF RATING FORMS

APPENDIX A

SAMPLES OF TYPES OF RATING FORMS

1950 11/10/50 10/10/50 10/10/50

[illegible]

DESCRIPTIONS OF THE SPECIES

| | | |
|---|---|---|
| <p>1. <i>...</i></p> <p>2. <i>...</i></p> <p>3. <i>...</i></p> <p>4. <i>...</i></p> <p>5. <i>...</i></p> <p>6. <i>...</i></p> <p>7. <i>...</i></p> <p>8. <i>...</i></p> <p>9. <i>...</i></p> <p>10. <i>...</i></p> <p>11. <i>...</i></p> <p>12. <i>...</i></p> <p>13. <i>...</i></p> <p>14. <i>...</i></p> <p>15. <i>...</i></p> <p>16. <i>...</i></p> <p>17. <i>...</i></p> <p>18. <i>...</i></p> <p>19. <i>...</i></p> <p>20. <i>...</i></p> <p>21. <i>...</i></p> <p>22. <i>...</i></p> <p>23. <i>...</i></p> <p>24. <i>...</i></p> <p>25. <i>...</i></p> <p>26. <i>...</i></p> <p>27. <i>...</i></p> <p>28. <i>...</i></p> <p>29. <i>...</i></p> <p>30. <i>...</i></p> <p>31. <i>...</i></p> <p>32. <i>...</i></p> <p>33. <i>...</i></p> <p>34. <i>...</i></p> <p>35. <i>...</i></p> <p>36. <i>...</i></p> <p>37. <i>...</i></p> <p>38. <i>...</i></p> <p>39. <i>...</i></p> <p>40. <i>...</i></p> <p>41. <i>...</i></p> <p>42. <i>...</i></p> <p>43. <i>...</i></p> <p>44. <i>...</i></p> <p>45. <i>...</i></p> <p>46. <i>...</i></p> <p>47. <i>...</i></p> <p>48. <i>...</i></p> <p>49. <i>...</i></p> <p>50. <i>...</i></p> <p>51. <i>...</i></p> <p>52. <i>...</i></p> <p>53. <i>...</i></p> <p>54. <i>...</i></p> <p>55. <i>...</i></p> <p>56. <i>...</i></p> <p>57. <i>...</i></p> <p>58. <i>...</i></p> <p>59. <i>...</i></p> <p>60. <i>...</i></p> <p>61. <i>...</i></p> <p>62. <i>...</i></p> <p>63. <i>...</i></p> <p>64. <i>...</i></p> <p>65. <i>...</i></p> <p>66. <i>...</i></p> <p>67. <i>...</i></p> <p>68. <i>...</i></p> <p>69. <i>...</i></p> <p>70. <i>...</i></p> <p>71. <i>...</i></p> <p>72. <i>...</i></p> <p>73. <i>...</i></p> <p>74. <i>...</i></p> <p>75. <i>...</i></p> <p>76. <i>...</i></p> <p>77. <i>...</i></p> <p>78. <i>...</i></p> <p>79. <i>...</i></p> <p>80. <i>...</i></p> <p>81. <i>...</i></p> <p>82. <i>...</i></p> <p>83. <i>...</i></p> <p>84. <i>...</i></p> <p>85. <i>...</i></p> <p>86. <i>...</i></p> <p>87. <i>...</i></p> <p>88. <i>...</i></p> <p>89. <i>...</i></p> <p>90. <i>...</i></p> <p>91. <i>...</i></p> <p>92. <i>...</i></p> <p>93. <i>...</i></p> <p>94. <i>...</i></p> <p>95. <i>...</i></p> <p>96. <i>...</i></p> <p>97. <i>...</i></p> <p>98. <i>...</i></p> <p>99. <i>...</i></p> <p>100. <i>...</i></p> | <p>1. <i>...</i></p> <p>2. <i>...</i></p> <p>3. <i>...</i></p> <p>4. <i>...</i></p> <p>5. <i>...</i></p> <p>6. <i>...</i></p> <p>7. <i>...</i></p> <p>8. <i>...</i></p> <p>9. <i>...</i></p> <p>10. <i>...</i></p> <p>11. <i>...</i></p> <p>12. <i>...</i></p> <p>13. <i>...</i></p> <p>14. <i>...</i></p> <p>15. <i>...</i></p> <p>16. <i>...</i></p> <p>17. <i>...</i></p> <p>18. <i>...</i></p> <p>19. <i>...</i></p> <p>20. <i>...</i></p> <p>21. <i>...</i></p> <p>22. <i>...</i></p> <p>23. <i>...</i></p> <p>24. <i>...</i></p> <p>25. <i>...</i></p> <p>26. <i>...</i></p> <p>27. <i>...</i></p> <p>28. <i>...</i></p> <p>29. <i>...</i></p> <p>30. <i>...</i></p> <p>31. <i>...</i></p> <p>32. <i>...</i></p> <p>33. <i>...</i></p> <p>34. <i>...</i></p> <p>35. <i>...</i></p> <p>36. <i>...</i></p> <p>37. <i>...</i></p> <p>38. <i>...</i></p> <p>39. <i>...</i></p> <p>40. <i>...</i></p> <p>41. <i>...</i></p> <p>42. <i>...</i></p> <p>43. <i>...</i></p> <p>44. <i>...</i></p> <p>45. <i>...</i></p> <p>46. <i>...</i></p> <p>47. <i>...</i></p> <p>48. <i>...</i></p> <p>49. <i>...</i></p> <p>50. <i>...</i></p> <p>51. <i>...</i></p> <p>52. <i>...</i></p> <p>53. <i>...</i></p> <p>54. <i>...</i></p> <p>55. <i>...</i></p> <p>56. <i>...</i></p> <p>57. <i>...</i></p> <p>58. <i>...</i></p> <p>59. <i>...</i></p> <p>60. <i>...</i></p> <p>61. <i>...</i></p> <p>62. <i>...</i></p> <p>63. <i>...</i></p> <p>64. <i>...</i></p> <p>65. <i>...</i></p> <p>66. <i>...</i></p> <p>67. <i>...</i></p> <p>68. <i>...</i></p> <p>69. <i>...</i></p> <p>70. <i>...</i></p> <p>71. <i>...</i></p> <p>72. <i>...</i></p> <p>73. <i>...</i></p> <p>74. <i>...</i></p> <p>75. <i>...</i></p> <p>76. <i>...</i></p> <p>77. <i>...</i></p> <p>78. <i>...</i></p> <p>79. <i>...</i></p> <p>80. <i>...</i></p> <p>81. <i>...</i></p> <p>82. <i>...</i></p> <p>83. <i>...</i></p> <p>84. <i>...</i></p> <p>85. <i>...</i></p> <p>86. <i>...</i></p> <p>87. <i>...</i></p> <p>88. <i>...</i></p> <p>89. <i>...</i></p> <p>90. <i>...</i></p> <p>91. <i>...</i></p> <p>92. <i>...</i></p> <p>93. <i>...</i></p> <p>94. <i>...</i></p> <p>95. <i>...</i></p> <p>96. <i>...</i></p> <p>97. <i>...</i></p> <p>98. <i>...</i></p> <p>99. <i>...</i></p> <p>100. <i>...</i></p> | <p>1. <i>...</i></p> <p>2. <i>...</i></p> <p>3. <i>...</i></p> <p>4. <i>...</i></p> <p>5. <i>...</i></p> <p>6. <i>...</i></p> <p>7. <i>...</i></p> <p>8. <i>...</i></p> <p>9. <i>...</i></p> <p>10. <i>...</i></p> <p>11. <i>...</i></p> <p>12. <i>...</i></p> <p>13. <i>...</i></p> <p>14. <i>...</i></p> <p>15. <i>...</i></p> <p>16. <i>...</i></p> <p>17. <i>...</i></p> <p>18. <i>...</i></p> <p>19. <i>...</i></p> <p>20. <i>...</i></p> <p>21. <i>...</i></p> <p>22. <i>...</i></p> <p>23. <i>...</i></p> <p>24. <i>...</i></p> <p>25. <i>...</i></p> <p>26. <i>...</i></p> <p>27. <i>...</i></p> <p>28. <i>...</i></p> <p>29. <i>...</i></p> <p>30. <i>...</i></p> <p>31. <i>...</i></p> <p>32. <i>...</i></p> <p>33. <i>...</i></p> <p>34. <i>...</i></p> <p>35. <i>...</i></p> <p>36. <i>...</i></p> <p>37. <i>...</i></p> <p>38. <i>...</i></p> <p>39. <i>...</i></p> <p>40. <i>...</i></p> <p>41. <i>...</i></p> <p>42. <i>...</i></p> <p>43. <i>...</i></p> <p>44. <i>...</i></p> <p>45. <i>...</i></p> <p>46. <i>...</i></p> <p>47. <i>...</i></p> <p>48. <i>...</i></p> <p>49. <i>...</i></p> <p>50. <i>...</i></p> <p>51. <i>...</i></p> <p>52. <i>...</i></p> <p>53. <i>...</i></p> <p>54. <i>...</i></p> <p>55. <i>...</i></p> <p>56. <i>...</i></p> <p>57. <i>...</i></p> <p>58. <i>...</i></p> <p>59. <i>...</i></p> <p>60. <i>...</i></p> <p>61. <i>...</i></p> <p>62. <i>...</i></p> <p>63. <i>...</i></p> <p>64. <i>...</i></p> <p>65. <i>...</i></p> <p>66. <i>...</i></p> <p>67. <i>...</i></p> <p>68. <i>...</i></p> <p>69. <i>...</i></p> <p>70. <i>...</i></p> <p>71. <i>...</i></p> <p>72. <i>...</i></p> <p>73. <i>...</i></p> <p>74. <i>...</i></p> <p>75. <i>...</i></p> <p>76. <i>...</i></p> <p>77. <i>...</i></p> <p>78. <i>...</i></p> <p>79. <i>...</i></p> <p>80. <i>...</i></p> <p>81. <i>...</i></p> <p>82. <i>...</i></p> <p>83. <i>...</i></p> <p>84. <i>...</i></p> <p>85. <i>...</i></p> <p>86. <i>...</i></p> <p>87. <i>...</i></p> <p>88. <i>...</i></p> <p>89. <i>...</i></p> <p>90. <i>...</i></p> <p>91. <i>...</i></p> <p>92. <i>...</i></p> <p>93. <i>...</i></p> <p>94. <i>...</i></p> <p>95. <i>...</i></p> <p>96. <i>...</i></p> <p>97. <i>...</i></p> <p>98. <i>...</i></p> <p>99. <i>...</i></p> <p>100. <i>...</i></p> |
|---|---|---|

APPENDIX A

FORCED DISTRIBUTION SCALE

| Traits | Highest
10% | Next
20% | Middle
40% | Next
20% | Lowest
10% |
|--------------|----------------|-------------|---------------|-------------|---------------|
| Intelligence | | | | | |
| Initiative | | | | | |
| Leadership | | | | | |

CHECK LIST SCALE

Instructions to rater: Check only those statements among the following which are applicable to the ratee.

- :____: Is quick to take the correct action when it is needed.
- :____: Is resentful of constructive criticism.
- :____: Can be trusted to carry out assignments to best of his ability.
- :____: Is frequently late to work.
- :____: Requires constant supervision.

APPENDIX B

AN EARLY NAVY RATING FORM

(FORM A.)

Answers to queries from 1 to 6 inclusive shall be either "Excellent," "Good," "Tolerable," or "Not good," and must be written by the officer signing the report. Should the answer to any query be "Not good," or of an unfavorable nature, the reasons for such answer must be clearly stated and a copy of that portion of the report furnished to the officer concerned, who shall be granted a reasonable time to prepare such written statement and a copy thereof shall be made to make which statement shall be enclosed and forwarded with the report. Should the officer not desire to make a statement that fact shall be stated.

APPENDIX C

A MORE RECENT NAVY RATING FORM

12. To what degree has he exhibited the following qualifications? (Each line is divided into four main divisions, with a definition below each division. Consider only the definition below each line which accurately fits in regard to the subject. Having decided which definition is most suitable, place a check mark at the grading along line to which the person being marked is entitled. A check to the right of the double vertical line will be considered as an unsatisfactory (unfavorable) report.)

| | | | | |
|--|--|---|--|---|
| Intelligence
(With reference to the faculty of comprehension; mental acuteness.) | Exceptionally quick-witted; keen in understanding. | Grasps essentials of a situation quickly. | Readily understands normal situations and conditions. | Slow of comprehension; unimaginative. |
| Judgment
(With reference to a discriminating perception by which the value and relations of things is mentally ascertained.) | Unusually keen in estimating situations and reaching sound decisions. | Can generally be depended on to make proper decisions. | Good judgment in normal and routine things. | Poor judgment; draws wrong conclusions. |
| Initiative
(With reference to constructive thinking and resourcefulness; ability and intelligence to act on own responsibility.) | Exceptional in ability to think, plan, and do things without waiting to be told and instructed. | Able to plan and execute missions on his own responsibility. | Capable of performing normal and routine duties on own responsibility. | Requires constant guidance and supervision in his work, or evades responsibility. |
| Force
(With reference to moral power possessed and exerted in producing results.) | Strong, dynamic. | Strong. | Effectual under normal and routine circumstances. | Weak; with little influence over others. |
| Leadership
(With reference to the faculty of directing, controlling, and influencing others in definite lines of action.) | Inspires others to a high degree by precept and example; will always have a following. | A very good leader; attracts subordinates. | Leads well, but has his limitations. | A poor leader of men; fails to attract others; does not inspire confidence. |
| Tact
(With reference to the faculty of being courteous, considerate, and sensible in dealing with others.) | Adaptable and courteous to a high degree. Can be relied upon to handle delicate questions or situations. | Adaptable, courteous, and successful in dealing with others. | Reasonably tactful. | Irritates; creates friction. |
| Cooperation
(With reference to the faculty of working harmoniously with others toward the accomplishment of common duties.) | Exceptionally successful in working with others to a common end. | Works in harmony with others. | Responsive to leadership. | Obstructive. |
| Loyalty
(Fidelity, faithfulness, allegiance, constancy — all with reference to a cause and to higher authority.) | Unswerving in allegiance; frank and honest in aiding and advising. | A high sense of loyalty. | Faithful in the execution of his duty. | Hypercritical; disloyal. |
| Attention to Duty
(With reference to the faculty of carrying on all work in a thorough and conscientious manner.) | Has an exceptionally high standard with reference to devotion to duty. | Attends to his duty in a highly satisfactory manner. | Satisfactory attention to duty. | Inclined to defer or neglect his work. |
| Presence of Mind
(With reference to the faculty of acting instinctively in a logical manner in difficult and unforeseen situations.) | Exceptionally cool-headed and logical in his actions under all conditions. | Composed and logical in his actions in difficult situations. | Logical in his actions in general. | Easily disconcerted. |
| Endurance
(With reference to ability for carrying on under any and all conditions.) | Capable of standing an exceptional amount of physical hardships and strain. | Can perform well his duties under trying conditions. | Of normal endurance. | Tires or breaks down easily. |
| Industry
(With reference to performance of duties in an energetic manner.) | Extremely energetic and industrious. | Thorough and energetic. | Intermittently energetic and industrious. | Indolent; inactive; lazy. |
| Military Bearing
(With reference to military carriage and dignity of demeanor.) | Exceptional in carriage. | Carries himself well. | Bearing fair. | Unmilitary in bearing. |
| Neatness of Person and Dress
(With reference to correctness of uniform and smartness of appearance.) | Punctilious as to uniform; immaculate in dress and person. | Properly and well dressed and careful of personal appearance. | Generally neat and correct in uniform. | Untidy in dress or personal appearance. |
| Aptitude for Service
(With reference to a natural capacity and general fitness for the Naval Service.) | Enthusiastic and excellently fitted for the Naval Service. | Well fitted and interested. | Adapts himself to and is acquiring a capacity for the service. | Not fitted. |

REMARKS

13. Give in this space: (a) A clear and concise estimate of this officer's personal and military character, (b) his fitness for promotion, (c) any duty performed worthy of special mention, (d) also any information which might be of value to the department in making assignments to duty.

THIS SPACE MUST NOT BE LEFT BLANK
(See Art. 137 (7), U. S. N. R., 1920)

APPENDIX D
PRESENT NAVY RATING FORM

READ CAREFULLY THE INSTRUCTIONS ON THE REVERSE SIDE

DATE

NAME (last) (first) (middle)

RANK AND CLASSIFICATION

FILE NO.

SHIP OR STATION

PERIOD OF REPORT (mo., day, year)
DATE FROM DATE TO

DATE OF REPORTING TO PRESENT SHIP OR STATION

OCCASION FOR REPORT
☐ DETACHMENT OF OFFICER REPORTED ON ☐ DETACHMENT OF REPORTING SENIOR ☐ REGULAR SEMI-ANNUAL ☐ QUARTERLY ☐ SPECIAL

2. DESCRIPTION OF DUTIES SINCE LAST FITNESS REPORT (List most recent first and describe accurately. Include periods of leave, transit, etc., also include employment of ship.)

FROM

TO

MO. YR. MO. YR.

Has present duty changed since last fitness report was submitted? ☐ Yes ☐ No

3. IF COURSES OF INSTRUCTION WERE COMPLETED DURING PERIOD OF THIS REPORT, LIST TITLE OF COURSE, LOCATION OF SCHOOL, LENGTH OF COURSE AND DATE COMPLETED.

Are you physically qualified for Sea Duty? ☐ Yes ☐ No ☐ Don't Know

4. If Aviator, indicate No. of Flight Hours Last Two years for Each Type Aircraft (List Most Recent Type First)

TYPE OF AIRCRAFT

NO. OF HOURS

TOTAL

5. MY PREFERENCE FOR NEXT DUTY IS:

SEA SHORE

KIND OF DUTY

LOCATION

6. SECTIONS 6 THROUGH 12 TO BE FILLED IN BY REPORTING OFFICER

NAME OF REPORTING OFFICER RANK FILE NO. OFFICIAL STATUS RELATIVE TO OFFICER REPORTED ON

IS THIS OFFICER QUALIFIED TO PERFORM ALL HIS PRESENT DUTIES? ☐ YES ☐ NO

INDICATE MORE RESPONSIBLE DUTIES FOR WHICH HE IS IN TRAINING. (If none, so state)

DATE OF EXPECTED QUALIFICATION

Comment on special or outstanding qualifications as well as any physical defects, which should be considered in determining the kinds of duty to which he should be detailed. Only comments on qualifications significant in detailing should be entered here. ANY COMMENTS REGARDING FITNESS FOR PROMOTION SHOULD BE ENTERED IN SECTION 12 ONLY OF PAGE 1.

FOR WHAT DUTIES IS HE RECOMMENDED?

ASHORE AFLOAT

7. FOR EACH FACTOR OBSERVED CHECK THE APPROPRIATE BOX TO INDICATE HOW THE OFFICER COMPARES WITH ALL OTHERS OF THE SAME RANK, CLASSIFICATION AND CORPS WHOSE PROFESSIONAL ABILITIES ARE KNOWN TO YOU PERSONALLY. DO NOT LIMIT THIS COMPARISON ONLY TO THE OTHERS NOW UNDER YOUR COMMAND. DO NOT HESITATE TO MARK "NOT OBSERVED" ON ANY QUALITY WHEN APPROPRIATE. NO ENTRY WHICH IS MADE IN THIS SECTION WILL BE CONSIDERED AN UNSATISFACTORY REPORT WHICH MUST BE REFERRED TO THE OFFICER FOR STATEMENT. ONLY ENTRIES DESIGNATED IN SECTIONS 8, 9, 11 AND 12 WILL BE SO CONSIDERED.

RATING FACTORS

Not Observed

Within Bottom 10%

Within Next 20%

Within Middle 40%

Within Next Top 20%

Within Top 10%

A. SEA OR ADVANCE BASE DUTY

How does this officer compare in:
NOTE: ITEM (A3) TO BE MARKED FOR ALL OFFICERS.

1. STANDING DECK WATCHES UNDERWAY?

2. ABILITY TO COMMAND?

3. PERFORMANCE IN PRESENT DUTIES AS DESCRIBED IN SECTION 2, ABOVE?

4. REACTIONS DURING EMERGENCIES?

5. PERFORMANCE AT BATTLE STATION OR IN BATTLE DUTIES?

B. INITIATIVE AND RESPONSIBILITY

How well does this officer:

1. ASSUME RESPONSIBILITY WHEN SPECIFIC INSTRUCTIONS ARE LACKING?

2. GIVE FRANK OPINIONS WHEN ASKED OR VOLUNTEER THEM WHEN NECESSARY TO AVOID MISTAKES?

3. FOLLOW THROUGH DESPITE OBSTACLES IN CARRYING OUT RESPONSIBILITIES ASSIGNED OR ASSUMED?

C. UNDERSTANDING AND SKILL

How well does this officer:

1. UNDERSTAND INSTRUCTIONS GIVEN, AND USE SUGGESTIONS OFFERED?

2. EXERCISE JUDGMENT?

3. RATE IN TECHNICAL COMPETENCE IN HIS SPECIALTY, IF ANY? (Name Specialty)

D. LEADERSHIP

How well does this officer:

1. INSPIRE SUBORDINATES TO WORK TO THE MAXIMUM OF THEIR CAPACITY?

2. EFFECTIVELY DELEGATE TASKS AND AUTHORITY?

3. TRANSMIT ORDERS, INSTRUCTIONS, AND PLANS?

4. ORGANIZE HIS WORK AND THAT OF THOSE UNDER HIS COMMAND OR SUPERVISION?

5. MAINTAIN DISCIPLINE AMONG THOSE UNDER HIS COMMAND OR DIRECTION?

E. CONDUCT AND WORK HABITS

How does this officer compare in:

1. ABILITY TO WORK WITH OTHERS?

2. ABILITY TO ADAPT TO CHANGING NEEDS AND CONDITIONS?

3. MILITARY CONDUCT—BEARING, DRESS, COURTESY, ETC.?

8. INDICATE YOUR ATTITUDE TOWARD HAVING THIS OFFICER UNDER YOUR COMMAND, WOULD YOU:

(Check one)
☐ DEFINITELY NOT WANT HIM? (UNSATISFACTORY) ☐ PREFER NOT TO HAVE HIM? (UNSATISFACTORY) ☐ BE SATISFIED TO HAVE HIM? ☐ BE PLEASED TO HAVE HIM? ☐ PARTICULARLY DESIRE HIM?

9a. Considering All Officers of the Same Rank, Classification and Corps, Whose Professional Abilities Are Known to You Personally, Would You Promote Him:

(Check one)
☐ UNDER NO CIRCUMSTANCES? (Unsatisfactory) ☐ IF 80% WERE TO BE PROMOTED? ☐ IF 70% WERE TO BE PROMOTED? ☐ IF 50% WERE TO BE PROMOTED? ☐ IF ONLY 10% WERE TO BE PROMOTED?

9b. How many Officers are included in the group used for the comparison in 9a?
☐ 10 OR LESS ☐ 10 TO 50 ☐ OVER 50

10. COMMENT IN SECTION 12 AND GIVE REFERENCE HERE TO ANY COMMENDABLE OR ADVERSE REPORTS THAT HAVE BEEN MADE ON THE OFFICER DURING THIS PERIOD.

11. HAVE YOU ANY ADVERSE COMMENTS TO MAKE REGARDING THIS OFFICER'S QUALITIES OR PERFORMANCE? HAS HE ANY MENTAL OR MORAL WEAKNESS WHICH ADVERSELY AFFECTS HIS EFFICIENCY?

☐ YES ☐ NO If yes, explain in Section 12. ☐ UNSATISFACTORY. Yes in either item of Section 11 constitutes an unsatisfactory report and must be referred to the officer for statement.

12. Give in this space a clear, concise appraisal of the officer reported on and his performance of duty, including any worthy of special mention. Include recommendations as to promotion. Any statements of unsatisfactory performance, ability, character, or conduct must be referred to the officer for statement. Statements of a constructive nature which refer to minor imperfections or lack of qualifications do not constitute an unsatisfactory report. For example: "This officer was a little slow in getting started but is now making good progress" or "This officer is well qualified in his present duties but has had no experience at sea" would not be unsatisfactory in nature.

Check one of these boxes — I CONSIDER THIS REPORT TO BE ☐ SATISFACTORY ☐ UNFAVORABLE ☐ UNSATISFACTORY

DO NOT LEAVE BLANK

(If additional space is needed attach extra sheet)

SIGNATURE OF OFFICER REPORTED ON (Applies only to Sections 1 through 8)

SIGNATURE OF REPORTING OFFICER

Has this report been shown or referred to officer reported on? ☐ Yes ☐ No

DO NOT FORWARD THIS SHEET TO BUPERS

OFFICER'S FITNESS REPORT INSTRUCTION SHEET

IMPORTANT INSTRUCTIONS—READ CAREFULLY

GENERAL INSTRUCTIONS

The attached revised Officer's Fitness Report is to be used in place of the old forms, NAVPERS 310 and 311.

This form serves the following purposes:

1. It serves as a report of fitness for all officers both afloat and on shore.
2. The first carbon—(Page 2)—keeps up to date in BuPers the Officer's Qualifications Questionnaire, which provides the Bureau with information covering each officer's previous experience and qualifications for various types of duty.
3. The second carbon—(Page 3)—provides data covering changes in the officer's qualifications and is to be filed in the Officer's Qualification Record Jacket as an aid to Commanding Officers and Personnel Officers in assigning him properly.

This form is to be submitted semi-annually for all officers and in all cases of permanent detachment of either the officer or reporting senior. Special reports of fitness on an officer, on the prescribed form, shall be made whenever the officer reported on:

- (a) Distinguishes himself in battle.
- (b) Performs an outstanding act of valor or devotion to duty.
- (c) Displays extraordinary courage, ability, or resource in time of peril or great responsibility.
- (d) Is guilty of serious misconduct or marked inefficiency.

A typewriter is to be used when at all possible in filling out Sections 1 through 6. Since 96% of all fitness reports received in BuPers are typed, the form has been constructed for that type of preparation. Care should be exercised that the carbon copies are legible if a typewriter is not used.

INSTRUCTIONS FOR REPORTING OFFICERS

In deciding on promotions of officers, Selection Boards must, in effect, compare an officer with others of the same rank rather than with more arbitrary standards. You will note that in Section 7 and subsequent sections you are asked to do just that — compare each officer with all others of the same rank and corps whose professional abilities are known to you personally. Please note that the officer is not to be compared only with the others of his rank now under your command. For this reason, it is important to indicate in Section 9b how many officers are included in the group you use for comparison.

In making this comparison, keep in mind that the group of officers whose professional abilities are known to you personally (or any other group of people) will fall into a normal distribution when graded on any trait or factor—that is, there will be a small number at the lower end, a larger group in the middle, and a small group at the top. With this curve in mind, compare the officer with the group

and mark him on each factor in Section 7 as falling in one of the five brackets—the lower 10%, the next 20%, the middle 40%, the next 20% or the top 10%. Do not hesitate to mark "not observed" on any factor which you think not applicable to the duty in which you have observed the officer or in which your observation has been too limited to warrant judgment.

No entry which is made in Section 7 will be considered an unsatisfactory report. Only adverse comment in Section 6 and entries so designated in Sections 8, 9, 11 and 12 will be so considered.

An unsatisfactory report must be referred to the officer reported on for his statement which is to be attached to the report of fitness. In any case open to question as to what constitutes an entry of an unfavorable or unsatisfactory nature the officer will always be given the benefit of having seen the report. (See Articles 1701 and 1405 Navy Regulations, and BuPers Manual Article B-2202.

The Bureau desires that reporting seniors make every effort to show each fitness report to the officer reported upon and to discuss it with him, in so far as practicable. In this connection please note the instructions in Section 12 which provide that statements of a constructive nature which refer to minor imperfections or lack of qualifications do not constitute an unsatisfactory report. On every report of fitness, the reporting senior will indicate under Section 12 whether the officer reported on has or has not seen the report.

The reporting senior will sign all three pages of the report in the lower right hand corner, or will sign the original and designate a commissioned officer, preferably senior to the officer reported on, to authenticate Pages 2 and 3 in lower right hand corner. The officer reported on may sign and retain Page 3, inserting same in his qualification jacket, if he is geographically detached from the reporting senior.

The Officer's Fitness Report (Page 1) and the Officer's Qualification Report—BuPers Copy—(Page 2) are to be forwarded—not separated—to BuPers. The Officer's Qualification Report—Jacket Copy—(Page 3) is to be detached—and filed in the Officer's Qualification Record Jacket.

Fitness Reports are to be submitted promptly and their preparation is one of the most important and responsible duties of superior officers. Failure to prepare them objectively is detrimental to the efficiency of the Navy. If not submitted promptly, the rights of the officer reported on may be prejudiced. The fitness of an officer for the service with respect to promotion and assignment to duty is determined by his record.

INSTRUCTIONS FOR OFFICER REPORTED ON

It is your responsibility to fill out Sections 1 through 5 of this form and to sign all sheets in the lower left-hand corner. Submit the form to your reporting senior at the times specified in the General Instructions above. Use a typewriter, if at all possible—if not, use ink, but be sure that all copies are legible.

NOTE: For convenience there is printed on the back of these instructions a work sheet which may be used as a draft in preparing the carbonized set. The work sheet is to be detached before filling out the carbonized set and is NOT to be forwarded to BuPers.

APPENDIX E
ARMY RATING FORM

EFFICIENCY REPORT

See AR 600-185 for details.

Unit Adjutant or Personnel Officer will complete Sections I and III.
Rating Officer will complete Sections II, IV, V, VI, VII, VIII, and IX.
Indorsing Officer will complete Sections II, V, VII, and IX.

Section I. OFFICER REPORTED UPON

Use typewriter or print in ink. Use carbon paper to fill out Section III at same time. See AR 600-185.

DO NOT
WRITE
IN THIS
SPACE

| | | | | | | | | | |
|---|---|---------|---------------|--|----------------|-----------|------------------|----|---------------------------|
| LAST NAME | FIRST NAME | INITIAL | SERIAL NUMBER | GRADE | ARM OR SERVICE | COMPONENT | PERIOD OF REPORT | | WRITE
IN THIS
SPACE |
| | | | | | | | FROM | TO | |
| THEATER OR CONTINENTAL
COMMAND | UNIT, ORGANIZATION, AND STATION | | PRIMARY MOS | DUTY ASSIGNMENT
(MOS CODE) | DAYS OF | | | JP | |
| | | | | | DUTY | LEAVE | OTHER NON-DUTY | | |
| DATE OF REPORT | FOR REPORTS RENDERED BECAUSE OF PERMANENT CHANGE OF STATION, SUPPLY ADDRESS OF UNIT AND INSTALLATION
WHERE OFFICER WILL REPORT | | | | | | | PQ | |
| NAME, GRADE, AND ORGANIZATION OR UNIT OF RATING OFFICER | | | | NAME, GRADE, AND ORGANIZATION OR UNIT OF INDORSING OFFICER | | | | OA | |

Section II. DATA AND SUGGESTIONS FOR USE IN ASSIGNMENT

NOTE: Information on this page will be forwarded to the Career Branch of the Personnel and Administration Division by TAG after ratings have been determined. Proper future assignment and utilization of the officer will depend upon the care with which information in this section is formulated and reported. Use typewriter or print in ink.

A. DUTIES ACTUALLY PERFORMED ON PRESENT JOB. To be supplied by Rater. Be specific. Give his duty assignment and all additional duties with enough specific detail to show scope of job in each area.

B. DESCRIPTION OF OFFICER RATED AND COMMENTS. These paragraphs should cover physical, mental, moral qualities of rated officer, specialties of value to the Army, and any special defects or weaknesses affecting his ability to do certain assignments.

| | |
|----------------------------|-------------------------------|
| COMMENTS OF RATING OFFICER | COMMENTS OF INDORSING OFFICER |
|----------------------------|-------------------------------|

C. ESTIMATED DESIRABILITY IN VARIOUS CAPACITIES. Assume you are a commander of a major unit in war. Indicate to what extent you would want the rated officer to serve under you in the next higher grade in each type of duty described below. Place an X in the proper box, using the shaded NA area if the duty is not applicable. If line h is used, specify the nature of the specialty.

| RATER | | | | | | INDORSER | | | | | |
|-------|---|---|---|---|---|----------|---|---|---|---|---|
| NA | 1 | 2 | 3 | 4 | 5 | NA | 1 | 2 | 3 | 4 | 5 |

| | |
|----|---|
| a. | Represent your viewpoint and make decisions in your name at a higher headquarters. |
| b. | Command a unit immediately subordinate to you on a combat mission. |
| c. | Be responsible in an emergency calling for initiative, coolness, forceful leadership. |
| d. | Work on an assignment requiring great attention to detail and routine. |
| e. | Plan all aspects of a military situation, using judgment, initiative, and coolness. |
| f. | Carry out an assignment in a civilian component such as ROTC, NG, or ORC. |
| g. | Represent you where tact and ability to get along with people are needed. |
| h. | Work on an assignment as specialist or technician. (Specify.) |
| i. | Carry out the duties of the type of work to which he is now assigned. |

D. IMMEDIATE RECOMMENDATIONS FOR CAREER DEVELOPMENT. Be specific.

| | |
|--|---|
| RATER'S RECOMMENDATION FOR ASSIGNMENT (MOS CODE) | INDORSER'S RECOMMENDATION FOR ASSIGNMENT (MOS CODE) |
| RATER'S RECOMMENDATION FOR FURTHER TRAINING | INDORSER'S RECOMMENDATION FOR FURTHER TRAINING |

E. ENTRIES ARE BASED ON ➡
(RATER WILL CHECK)

INTIMATE DAILY CONTACT

FREQUENT OBSERVATION OF
THE RESULTS OF HIS WORK

INFREQUENT OBSERVATION OF
THE RESULTS OF HIS WORK

ACADEMIC
RECORDS

OFFICIAL REPORTS

EFFICIENCY REPORT

WD AGO Form 67-1 Part 2

See AR 600-185 for details.

Unit Adjutant or Personnel Officer will complete Sections I and III.
 Rating Officer will complete Sections II, IV, V, VI, VII, VIII, and IX.
 Indorsing Officer will complete Sections II, V, VII, and IX.

Section III. OFFICER REPORTED UPON

Enter same information as for Section I.

DO NOT
WRITE
IN THIS
SPACE

| | | | | | | | | |
|-----------------------------------|--|---------|---------------|-------------|-------------------------------|-----------|------------------|----------------|
| LAST NAME | FIRST NAME | INITIAL | SERIAL NUMBER | GRADE | ARM OR SERVICE | COMPONENT | PERIOD OF REPORT | |
| | | | | | | | FROM | TO |
| THEATER OR CONTINENTAL
COMMAND | UNIT, ORGANIZATION, AND STATION | | | PRIMARY MOS | DUTY ASSIGNMENT
(MOS CODE) | DAYS OF | | |
| | | | | | | DUTY | LEAVE | OTHER NON-DUTY |
| DATE OF REPORT | FOR REPORTS RENDERED BECAUSE OF PERMANENT CHANGE OF STATION, SUPPLY ADDRESS OF UNIT AND INSTALLATION WHERE OFFICER WILL REPORT | | | | | | | PQ |

READ INSTRUCTION SHEET CAREFULLY
 BEFORE MARKING THIS SECTION

Section IV. JOB PROFICIENCY

OA

| | | | |
|---|---|--|--|
| A. Becomes dogmatic about his authority. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Careless & slipshod in attention to duty. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. No one ever doubts his ability. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Well-grounded in all phases of Army life. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Always criticizes, never praises. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Carries out orders by "passing the buck." <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Knows his job and performs it well. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Plays no favorites. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Fails to work for the best interest of all. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Has a high degree of initiative. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Never makes excuses for his mistakes. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Slow in accomplishing his work. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Fails to support fellow officers. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Oversteps his authority. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Gives clear and concise directions. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Very exacting in all details. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T |
| A. Follows closely directions of higher echelons. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Inclined to "gold-brick." <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Criticizes unnecessarily. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Willing to accept responsibility. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Constantly striving for new knowledge and ideas. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Businesslike. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Apparently not physically fit. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Fails to use good judgment. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Criticizes policies of superiors. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Others can't work with him. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. If he is wrong, will admit it. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. The men know they can rely on his judgment. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Blames others for his mistakes. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Always demands strict discipline. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Excellent at constructive criticism. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Hesitant about rendering decisions. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T |
| A. A go-getter who always does a good job. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Cool under all circumstances. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Doesn't listen to suggestions. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Drives instead of leads. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Cannot assume responsibility. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Knows how and when to delegate authority. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Offers suggestions. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Too easily changes his ideas. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Doesn't try to "pull rank." <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Knows men, their capabilities & limitations. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Low efficiency. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Uses a steady monotone in his speech. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T | A. Can take over in an emergency. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
B. Fair and just in his dealings. <input type="checkbox"/> T <input type="checkbox"/> S <input type="checkbox"/> T
C. Lacks interest in his job. <input type="checkbox"/> M <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> T
D. Questions orders from superiors. <input type="checkbox"/> L <input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> S <input type="checkbox"/> T |

READ INSTRUCTION SHEET CAREFULLY
 BEFORE MARKING THIS SECTION

Section V. JOB PROFICIENCY

| | | | | | | | | | | | | | | | | |
|----------------------------|----------------------|---|----------------------|--|---|--|----|----|----|----|----|----|----|----|----|----|
| DO NOT WRITE IN THIS SPACE | 1 | Management and operation of military matters not included in tactics and strategy. | 5 | Assisting commanders of battalions or larger units in devising methods of meeting the requirements of military situations. | | | | | | | | | | | | |
| | 2 | The direction of the over-all operation of a military unit. | | 6 | Duties involving aeronautical skills performed by rated officers. | | | | | | | | | | | |
| | 3 | Presenting learning materials in a classroom situation in a military or civilian component. | | | 7 | Training at service schools, Air University, Army Industrial College, etc. | | | | | | | | | | |
| | 4 | Exercise of specialized knowledge, requiring lengthy technological training. | | | | | | | | | | | | | | |
| FOR RATING OFFICER | | FOR INDORSING OFFICER | | | | | | | | | | | | | | |
| PRIMARY | 1 2 3 4 5 6 7 8 9 10 | PRIMARY | 1 2 3 4 5 6 7 8 9 10 | | | | | | | | | | | | | |
| SECONDARY | 1 2 3 4 5 6 7 8 9 10 | SECONDARY | 1 2 3 4 5 6 7 8 9 10 | | | | | | | | | | | | | |
| DO NOT WRITE IN THIS SPACE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

| | | | |
|--|---|--|--|
| A. People work for & with him because of his personality.
B. Never rank-conscious.
C. Thinks only of himself.
D. Worries a great deal. | A. Lacks ability to inspire confidence of men & officers.
B. Easygoing.
C. Type of man everyone likes for a friend.
D. Has a quiet, dignified bearing. | A. Plenty of military snap, bearing, & neatness.
B. Normally cheerful.
C. Can't take criticism.
D. Doesn't get along with people. | A. Obtains respect & obedience without causing resentment.
B. Lacks aggressiveness.
C. Has an excellent command of language.
D. Lacking in good conduct & moral habits. |
| A. Active in athletics.
B. Firm but not overbearing.
C. Egotistical.
D. Rubs people the wrong way. | A. Hot-tempered.
B. Fails to demonstrate originality.
C. Reserved.
D. Impresses people favorably. | A. Modest & reserved.
B. Doesn't have drive or force he should.
C. Antisocial.
D. Respected by all fellow officers. | A. Coolheaded.
B. Commands respect by his actions.
C. Overbearing.
D. Indifferent. |
| A. Compliments a man on his good work.
B. Loses his head, gets excited.
C. Has admiration of officers & men alike.
D. Poor in dress & appearance. | A. Boastful.
B. Inspires pride in the organization.
C. Lacks tact.
D. Thoughtful of others. | A. A quiet, unassuming officer.
B. Follows rather than leads.
C. Has an attitude of superiority.
D. Tactful. | A. Immature.
B. Modest but not retiring.
C. Nervous.
D. Thoroughly cooperative in his work. |

Section VII. PERSONAL QUALIFICATIONS

Use ELECTROGRAPHIC PENCIL, following same directions as for Section V. MARK ALL SIX QUALIFICATIONS.

| | FOR RATING OFFICER | | | | | | | | | | FOR INDORSING OFFICER | | | | | | | | | |
|---|--------------------|---|---|---|---|---|---|---|---|----|-----------------------|---|---|---|---|---|---|---|---|----|
| The degree to which he is able to meet situations without bias and without emotional upset. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| The degree to which he is able and willing to work with other officers and enlisted men. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| The degree to which he is able to act on his own responsibility in absence of orders. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| The degree to which he is able to discriminate & evaluate facts to arrive at logical conclusions. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| The degree to which his appearance and behavior cause people to react favorably. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| The degree to which he is able to carry out orders with consistency & firmness to achieve objectives. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Section VIII. OVER-ALL RELATIVE RANK

FOR RATER ONLY

| | |
|--|---|
| The number of officers in this grade rated by me at this time is _____ | If these officers were arranged in order, considering over-all future usefulness to the Army, from highest (No.1) to poorest, this officer would be No. _____ of the total group rated. |
|--|---|

Section IX. AUTHENTICATION

Use typewriter (except for signatures) or ink.

I certify that I have read the current AR 600-185 and that all ratings are made in accordance with instructions contained therein, and that to the best of my knowledge and belief all entries contained hereon are true and impartial.

| | |
|---|--|
| SIGNATURE OF RATING OFFICER | SIGNATURE OF INDORSING OFFICER |
| NAME, GRADE, AND ORGANIZATION OR UNIT | NAME, GRADE, AND ORGANIZATION OR UNIT |
| OFFICIAL STATUS OF RATED OFFICER WITH RESPECT TO RATING OFFICER | OFFICIAL STATUS OF RATED OFFICER WITH RESPECT TO INDORSING OFFICER |

APPENDIX F
AIR FORCE RATING WORK BOOKLET
(SAMPLE SHEET)

40. SUBORDINATING PERSONAL INTERESTS (See also V-49)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|---|---|---|--|
| Unknown | Allowed personal interest and welfare to interfere seriously with performance of duty. | Made excessive use of the privileges of his rank to increase personal comfort or avoid inconvenience. | Accepted minor personal inconvenience in order to perform his duties. | Subordinated personal desires to the performance of duty. | Disregarded personal welfare and interests completely when necessary for the successful performance of duty. |

41. COOPERATING WITH ASSOCIATES (See also I-11)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|---|---|---|--|---|
| Unknown | Refused to help or cooperate with an associate. | Cooperated only grudgingly with an associate. | Gave some assistance to an associate when requested to do so. | Cooperated willingly with an associate when called upon. | Voluntarily assisted an associate when help was needed. |

42. SHOWING LOYALTY

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|---|---|--|--|
| Unknown | Openly criticized a superior or associate. | Allowed a superior or associate to be criticized without coming to his defense. | Supported the policies or actions of a superior or associate. | Gave credit to a superior for accomplishments of the organization. | Shared any criticism or blame directed at a superior for the mistakes or shortcomings of his organization. |

43. TAKING RESPONSIBILITY FOR SUBORDINATES (See also II-26)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|--|---|---|--|
| Unknown | Failed to take any responsibility for the conduct and fair treatment of a subordinate. | Took very little responsibility for the conduct and fair treatment of a subordinate. | Assumed responsibility for the conduct and fair treatment of a subordinate. | Assumed substantial responsibility for the conduct and fair treatment of a subordinate. | Assumed full responsibility for the conduct and fair treatment of a subordinate. |

V. PERSONAL HABITS AND ADJUSTMENT

44. ATTENDING TO DUTY

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|------------------------------------|-------------------------------|--|--|
| Unknown | Required constant prodding and close supervision to keep his attention on his assigned duties. | Worked just hard enough to get by. | Showed satisfactory industry. | Worked hard and willingly to achieve objectives. | Did extra work voluntarily in order to achieve objectives. |

45. ATTENDING TO DETAILS

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|---|--|---|--|
| Unknown | Neglected an important detail of his job with serious results. | Neglected routine details of his work, slowing up operations. | Handled satisfactorily the important details of his job. | Gave careful attention to the important details of his job. | Made sure that all details of his job were completely taken care of. |

46. REPORTING FOR APPOINTMENTS

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|---|---|---|---|
| Unknown | Failed to keep an appointment causing serious inconvenience to others. | Was late for an appointment without notifying others. | Notified others when he expected to be late for an appointment. | Made a special effort to be prompt in reporting for an appointment. | Kept an appointment in spite of substantial personal inconvenience. |

47. MEETING COMMITMENTS (See also I-3)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|---|---|--------------------------------------|---|---|
| Unknown | Failed to meet a commitment hindering the work of others. | Was late in meeting a commitment causing inconvenience to others. | Met a commitment promptly and fully. | Met a commitment fully in spite of difficulties beyond his control. | Completed an assignment ahead of time and more fully than required. |

48. IMPROVING EFFECTIVENESS (See also VI-55)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|--|---|---|---|
| Unknown | Refused an opportunity offered him to improve his effectiveness. | Ignored an opportunity to improve his proficiency or potentiality. | Accepted an opportunity to improve his proficiency or potentiality. | Was alert to an opportunity to improve his effectiveness. | Sought out actively an opportunity to improve his proficiency and potentiality. |

49. BEING FAIR AND SCRUPULOUS (See also IV-40)

| <input type="checkbox"/> | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--|---|---|--------------------------------------|---|
| Unknown | Made an inaccurate or evasive statement or indulged in a "sharp" practice. | Used an indirect and questionable method. | Was satisfactorily accurate, frank, or fair in a statement or practice. | Used a direct and forthright method. | Was scrupulously accurate, frank, or fair in a statement or practice. |

30. MAKING USE OF EXPERIENCE (See also VI-56)

| | 1 | 2 | 3 | 4 | 5 |
|---------|--|--|--|---|--|
| Unknown | Made no application of his own or others' experience in similar work resulting in unnecessary delays and errors. | Failed to make adequate application of his own or others' experience resulting in a loss of effectiveness. | Made some application of his own or others' experience to assist him on a problem. | Made good use of his own or others' experience to work out a problem. | Applied his own and others' experience to the fullest extent in the solution of a problem. |

31. LONG-RANGE PLANNING

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|--|--|---|---|
| Unknown | Failed to prepare plans to guide the organization's work. | Prepared only inadequate plans based on a sketchy understanding of the objectives. | Prepared plans based on only the immediate objectives of the organization. | Prepared careful plans based on a full understanding of all the objectives. | Developed very effective long-range plans based on a thorough analysis of all objectives and of means of reaching them. |

32. TAKING PROMPT ACTION

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|--|--|---|---|
| Unknown | Refused to act when a decision was urgently needed. | Hesitated or put off making a needed decision although possessed of all essential facts. | Took necessary action without serious delay. | Took prompt action to meet an established need. | Took prompt action to meet a legitimate need even though he might have delayed. |

33. SUSPENDING JUDGMENT

| | 1 | 2 | 3 | 4 | 5 |
|---------|--|---|---|--|--|
| Unknown | Refused to wait for or examine essential additional facts before deciding. | Failed to request or examine needed additional facts before deciding. | Decided only after he had been supplied with some additional information. | Withheld his decision on an important matter until the main additional facts needed could be examined. | Insisted in spite of strong pressure on obtaining needed additional facts before making an important decision. |

34. MAKING CORRECT DECISIONS

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|---|--|--|---|
| Unknown | Made a bad decision which appeared quite contrary to the known facts. | Made a serious error in judging the relative importance of several factors in deciding. | Made an adequate decision based on a reasonable interpretation of the facts. | Made a good decision showing sound evaluation of all the factors involved. | Made an excellent decision which exactly fitted all the factors involved. |

35. PERSISTING IN EFFORTS

| | 1 | 2 | 3 | 4 | 5 |
|---------|--|--|---|--|---|
| Unknown | Gave up as soon as he met opposition or difficulties in pursuing an objective. | Gave up after a few attempts had failed. | Kept on working toward an objective of the organization despite minor difficulties or opposition. | Renewed his efforts after a major set-back in pursuing an objective of the organization. | Persisted in his efforts to achieve an objective of the organization despite repeated set-backs or severe opposition. |

36. MAKING FORCEFUL EFFORTS

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|---|--|---|--|
| Unknown | Made very feeble and ineffectual efforts to achieve an objective. | Made only weak and partially effective efforts to achieve an objective. | Was somewhat vigorous and forceful in his efforts to achieve an objective. | Pursued an objective of the organization with energy and force. | Made very vigorous and forceful efforts to achieve an objective. |

37. ABSORBING MATERIALS

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|---|--|--|--|
| Unknown | Delayed operations because of his poor memory or the slowness with which he absorbed facts. | Made a mistake due to slow learning or faulty memory for facts. | Learned and remembered well enough to do a satisfactory job. | Achieved good results because he learned or recalled facts better than others. | Achieved exceptional results because of his unusual ability to learn and remember pertinent information. |

IV. ACCEPTANCE OF TEAM PRINCIPLE AND ORGANIZATIONAL DISCIPLINE

38. COMPLYING WITH ORDERS AND DIRECTIVES

| | 1 | 2 | 3 | 4 | 5 |
|---------|----------------------------------|--|---|--|--|
| Unknown | Disobeyed an order or directive. | Delayed or tried to avoid compliance with an order or directive. | Complied satisfactorily with an order or directive without undue delay. | Carried out an order or followed a directive promptly. | Carried out promptly and effectively the spirit and intent of an order or directive. |

39. ACCEPTING ORGANIZATIONAL PROCEDURE

| | 1 | 2 | 3 | 4 | 5 |
|---------|---|---|--|--|--|
| Unknown | Violated an organizational procedure or regulation. | Was openly critical of and followed only partially an organizational procedure. | Conformed without open criticism to an organizational procedure with which he had previously expressed disagreement. | Accepted a procedure fully because he understood the necessity for organizational control. | Accepted and promoted understanding of a procedure as essential to effective organizational control. |

APPENDIX G
AIR FORCE RATING SHEET

| LAST NAME | FIRST NAME | INITIAL | GRADE | SERIAL No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|---|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|---|--|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|---|--|--|--|--|--|
| <p>INSTRUCTIONS: Place an "X" in the appropriate box to denote your evaluation of the performance of this officer with respect to the critical requirements listed below. The six columns of boxes correspond to the unknown box and the five numbers on each scale in the <i>Check List of Critical Requirements for Officer Evaluation on Report of Officer Effectiveness (AF Form 77-1)</i>.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>I. PROFICIENCY IN HANDLING ADMINISTRATIVE DETAILS</p> <table border="0"> <tr> <td>U</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>1. Understanding instructions</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>2. Scheduling work</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>3. Getting information from records</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>4. Getting ideas from others</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>5. Checking accuracy of work</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>6. Writing letters and reports</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>7. Getting cooperation</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>8. Presenting finished work</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>9. Keeping records</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>10. Keeping others informed</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>11. Rendering effectiveness reports</td> </tr> </table>
<table border="0"> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td rowspan="2" style="border: 1px solid black; width: 50px; height: 40px; vertical-align: middle;">(DO NOT USE THIS SPACE)</td> </tr> <tr> <td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </table> | | U | 1 | 2 | 3 | 4 | 5 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. Understanding instructions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Scheduling work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. Getting information from records | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. Getting ideas from others | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. Checking accuracy of work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. Writing letters and reports | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. Getting cooperation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. Presenting finished work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. Keeping records | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. Keeping others informed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. Rendering effectiveness reports | X | | | | | | (DO NOT USE THIS SPACE) | | 1 | 2 | 3 | 4 | 5 | X | | | | | | | <p>IV. ACCEPTANCE OF ORGANIZATIONAL RESPONSIBILITY</p> <table border="0"> <tr> <td>U</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>34. Complying with orders and directives</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>35. Accepting organizational procedure</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>36. Subordinating personal interests</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>37. Cooperating with associates</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>38. Showing loyalty</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>39. Taking responsibility for subordinates</td> </tr> </table>
<table border="0"> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td rowspan="2" style="border: 1px solid black; width: 50px; height: 40px; vertical-align: middle;">(DO NOT USE THIS SPACE)</td> </tr> <tr> <td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </table> | | | U | 1 | 2 | 3 | 4 | 5 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Complying with orders and directives | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Accepting organizational procedure | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Subordinating personal interests | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 37. Cooperating with associates | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 38. Showing loyalty | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 39. Taking responsibility for subordinates | X | | | | | | (DO NOT USE THIS SPACE) | | 1 | 2 | 3 | 4 | 5 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. Understanding instructions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Scheduling work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. Getting information from records | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. Getting ideas from others | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. Checking accuracy of work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. Writing letters and reports | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. Getting cooperation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. Presenting finished work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. Keeping records | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. Keeping others informed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. Rendering effectiveness reports | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | (DO NOT USE THIS SPACE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Complying with orders and directives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Accepting organizational procedure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Subordinating personal interests | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 37. Cooperating with associates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 38. Showing loyalty | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 39. Taking responsibility for subordinates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | (DO NOT USE THIS SPACE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>II. PROFICIENCY IN SUPERVISING PERSONNEL</p> <table border="0"> <tr> <td>U</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>12. Matching personnel and jobs</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>13. Delegating authority</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>14. Giving orders and instructions</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>15. Insuring comprehension</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>16. Giving reasons and explanations</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>17. Supporting authorized actions</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>18. Encouraging ideas</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>19. Developing teamwork</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>20. Setting a good example</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>21. Assisting subordinates in their work</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>22. Evaluating subordinates' work</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>23. Looking out for subordinates' welfare</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>24. Maintaining relations with subordinates</td> </tr> </table>
<table border="0"> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td rowspan="2" style="border: 1px solid black; width: 50px; height: 40px; vertical-align: middle;">(DO NOT USE THIS SPACE)</td> </tr> <tr> <td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </table> | | U | 1 | 2 | 3 | 4 | 5 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12. Matching personnel and jobs | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Delegating authority | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Giving orders and instructions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15. Insuring comprehension | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. Giving reasons and explanations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Supporting authorized actions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Encouraging ideas | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 19. Developing teamwork | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 20. Setting a good example | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 21. Assisting subordinates in their work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 22. Evaluating subordinates' work | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Looking out for subordinates' welfare | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 24. Maintaining relations with subordinates | X | | | | | | (DO NOT USE THIS SPACE) | | 1 | 2 | 3 | 4 | 5 | X | | | | | | | <p>V. ACCEPTANCE OF PERSONAL RESPONSIBILITY</p> <table border="0"> <tr> <td>U</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>40. Attending to duty</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>41. Attending to details</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>42. Reporting for appointments</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>43. Meeting commitments</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>44. Being fair and scrupulous</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>45. Maintaining military appearance</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>46. Adapting to associates</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>47. Adapting to the job</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> <td>48. Conforming to civil standards</td> </tr> </table>
<table border="0"> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td> </tr></table> | | | U | 1 | 2 | 3 | 4 | 5 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 40. Attending to duty | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 41. Attending to details | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 42. Reporting for appointments | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 43. Meeting commitments | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 44. Being fair and scrupulous | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 45. Maintaining military appearance | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 46. Adapting to associates | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 47. Adapting to the job | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 48. Conforming to civil standards | X | | | | | |
| U | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12. Matching personnel and jobs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Delegating authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Giving orders and instructions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15. Insuring comprehension | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. Giving reasons and explanations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Supporting authorized actions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Encouraging ideas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 19. Developing teamwork | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 20. Setting a good example | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 21. Assisting subordinates in their work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 22. Evaluating subordinates' work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Looking out for subordinates' welfare | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 24. Maintaining relations with subordinates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | (DO NOT USE THIS SPACE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 40. Attending to duty | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 41. Attending to details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 42. Reporting for appointments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 43. Meeting commitments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 44. Being fair and scrupulous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 45. Maintaining military appearance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 46. Adapting to associates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 47. Adapting to the job | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 48. Conforming to civil standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX H
MARINE CORPS RATING FORM

REPORT ON FITNESS OF OFFICERS OF THE UNITED STATES MARINE CORPS

(To be submitted in accordance with Art. 137, U. S. Navy Regulations, 1920, and Art. 10-22, Marine Corps Manual)

_____, _____ U. S. M. C.
 (Name—Surname first) (Rank)

Ship or station _____

Period covered _____ months, from _____ to _____
 To be answered by officer reported on:

1. Regular duties _____
2. Additional duties _____
3. Wife's address _____
4. Name, relationship, and address of person other than wife to be notified in case of emergency _____

_____, _____ U. S. M. C.
 (Signature) (Rank)

To be answered by reporting officer:

5. Reporting officer _____, _____ U. S.
 (Name) (Rank)

6. *Method of rating.*—When rating this officer, consider carefully and keep in mind the following definitions, taking into consideration his length of service, the opportunities afforded him which might have a bearing on his performance of duty, his personal characteristics, and professional qualifications:

UNSATISFACTORY.—Inefficient; below minimum standard.

FAIR.—Satisfactory; passably efficient; up to minimum standard.

GOOD.—Average qualifications; efficient, but to a less degree than "Very good."

VERY GOOD.—Above average; efficient; well qualified.

EXCELLENT.—Highly efficient; qualified to a high degree.

OUTSTANDING.—Superior; exceptionally efficient; qualified to a preeminent degree.

NOT OBSERVED.—To be used in all cases where the reporting officer has had insufficient opportunity to observe the officer reported on during the period covered by this report to permit a rating as to performance of a particular duty, personal characteristics, or professional qualifications.

7. Before making out this report, decide in your own mind on an actual officer in the grade of the officer now being reported on who, in your opinion, based on personal knowledge, is the outstanding officer of his rank in the Marine Corps; or Decide in your own mind the character attributes and professional qualifications which the ideal officer in the grade of the officer now being reported on should possess.

| 8. Considering the officer reported on in comparison with your ideal (7), and having in mind the instructions under (6) "Method of Rating", indicate your estimate of him by marking "X" in the appropriate space below. | Not observed | Unsatisfactory | Fair | Good | Very good | Excellent | Outstanding |
|--|--------------|----------------|------|------|-----------|-----------|-------------|
| <i>Performance of duty (based on fact):</i> | | | | | | | |
| (a) Regular duties _____ | | | | | | | |
| (b) Additional duties _____ | | | | | | | |
| (c) Administrative duties _____ | | | | | | | |
| (d) Executive duties _____ | | | | | | | |
| (e) Handling officers _____ | | | | | | | |
| (f) Handling enlisted men _____ | | | | | | | |
| (g) Training troops _____ | | | | | | | |
| (h) Tactical handling of troops (unit appropriate to officer's grade) _____ | | | | | | | |

| 9. To what degree has he exhibited the following qualifications? Consider him in comparison with your ideal (7), and indicate your estimate by marking "X" in the appropriate space below. | Not observed | Unsatisfactory | Fair | Good | Very good | Excellent | Outstanding |
|--|--------------|----------------|------|------|-----------|-----------|-------------|
| (a) Physical fitness (physical stamina; endurance under hardship, adversity, or discouragement)..... | | | | | | | |
| (b) Military bearing and neatness (dignity of demeanor; neat and smart appearance)..... | | | | | | | |
| (c) Attention to duty (industry; the trait of working thoroughly and conscientiously)..... | | | | | | | |
| (d) Cooperation (the faculty of working in harmony with others, military or civilian)..... | | | | | | | |
| (e) Initiative (the trait of taking necessary or appropriate action on own responsibility)..... | | | | | | | |
| (f) Intelligence (the ability to grasp readily situations and instructions)..... | | | | | | | |
| (g) Judgment and common sense (the ability to think clearly and arrive at logical conclusions)..... | | | | | | | |
| (h) Presence of mind (the ability to think and act promptly and effectively in an unexpected emergency or under great strain)..... | | | | | | | |
| (i) Force (the faculty of carrying out with energy and resolution that which is believed to be reasonable, right, or duty)..... | | | | | | | |
| (j) Leadership (the capacity to direct, control, and influence others and still maintain high morale)..... | | | | | | | |
| (k) Loyalty (the quality of rendering faithful and willing service, and unswerving allegiance under any and all circumstances)..... | | | | | | | |

10. Has he any characteristics—temperamental, moral, physical, etc.—which adversely affect his efficiency?
If yes, briefly describe them

11. During the period covered by this report, has the work of this officer been reported on either in a commendatory way, or adversely? If so, indicate subject matter and date

12. During the period covered by this report was he the subject of any disciplinary action that should be included on his record?
If yes, and if not previously reported to Headquarters, attach separate statement of nature and attendant circumstances.

13. In case any unfavorable entries have been made by you on this or on a previous report, were the deficiencies noted brought to the attention of the officer concerned? If yes, what improvement, if any, has been noted?
If no improvement was noted, what period of time has elapsed since the deficiencies were brought to his notice?

14. Considering the possible requirements of the service in war, indicate your attitude toward having this officer under your command. Would you—
(a) Particularly desire to have him? (c) Be willing to have him?
(b) Be glad to have him? (d) Prefer not to have him?
If (d), explain briefly

15. (To be answered only when reporting on officers serving under revocable commissions.) Do you recommend retention in the service after expiration of revocable period of commission?
(Yes or no; if negative give reasons)

16. REMARKS: (To be used for additional pertinent information or comment, if any, not covered elsewhere in this report)

17. Indicate your estimate of this officer's "General Value to the Service", using the ratings specified in (6)

18. Having in mind the special fitness of this officer and the efficiency of the naval service, I certify that to the best of my knowledge and belief all entries made hereon are true and without prejudice or partiality.

U. S.

(Signature) (Rank)

(Date) (Duty)

U. S. GOVERNMENT PRINTING OFFICE 10-18250

APPENDIX I

GLOSSARY OF TERMS

APPENDIX I
GLOSSARY OF TERMS

APPENDIX I

GLOSSARY OF TERMS

- Behavior --** Any or all of the overt actions of an individual including manifestations of emotions. In the field of efficiency rating it refers particularly to those actions or manifestations which are significant to the job being performed by the ratee.
- Cognition--** A concept, a mental picture. Also the act of forming a mental picture.
- Continuum--** The relation which exists when several entities are actually varying degrees of the same quality of thing.
- Correlation--** The degree with which two phenomena are related or associated. Correlation implies association only, not causality.
- Correlation, Coefficient of--** The mathematical expression of the degree of association. A coefficient of 1.00 signifies perfect association for, knowing the value of one phenomenon, the personnel manager may predict the value of the other exactly. Coefficients of less than 1.00 indicate that prediction will be less than perfect until, at a coefficient of 0.0,

APPENDIX I

CLASSIFICATION

Behavior --

Any or all of the overt acts of an individual in his behavior are subject to classification. In the field of behavior, the classification is based on the nature of the behavior, the degree of its complexity, and the degree of its sociality. The classification is based on the nature of the behavior, the degree of its complexity, and the degree of its sociality.

Cognition --

The process of knowing, or the degree of knowledge, is subject to classification. The classification is based on the nature of the knowledge, the degree of its complexity, and the degree of its sociality.

Consciousness --

The relation which exists between the conscious and the unconscious is subject to classification. The classification is based on the nature of the relation, the degree of its complexity, and the degree of its sociality.

Correlation --

The degree of correlation between two phenomena is subject to classification. The classification is based on the nature of the correlation, the degree of its complexity, and the degree of its sociality.

Correlation --

The degree of correlation between two phenomena is subject to classification. The classification is based on the nature of the correlation, the degree of its complexity, and the degree of its sociality.

Correlation --

The degree of correlation between two phenomena is subject to classification. The classification is based on the nature of the correlation, the degree of its complexity, and the degree of its sociality.

there is no relation and prediction will be no better than blind guessing. Negative coefficients have predictive value comparable to that of positive coefficients of the same numerical magnitude. However, with a negative coefficient, the maximum display of one phenomenon is associated with the minimum of the other and prediction must be made on that basis.

Distribution -- Any group of scores obtained on the same rating or testing device and gathered together for consideration.

Efficiency Rating -- This is one name for an assessment of that portion of an individual's value on a job which is made up of intangible qualities not measurable by more objective means. The term is also applied to the blank paper form used to systematize and record this assessment.

Efficiency Report -- The U. S. Army efficiency rating device for officers. The term "report" carries the connotation that only a description of the ratee is being made with the derivation of a rating being postponed until the report reaches headquarters.

Fitness Report -- The U. S. Navy equivalent of the Army Efficiency Report.

- Mean --** The arithmetical average of a group of numbers.
- Median --** The point or number in a distribution which divides the distribution into two equal parts.
- Merit Rating --** The Industrial psychologist's equivalent of the Efficiency Rating.
- N --** The symbol for the number of subjects participating in an experiment.
- Perception --** That which takes place when an individual becomes aware of the occurrence of a phenomenon or of the existence of an entity.
- Percentile Score --** A score presented in such form that it shows the percentage of the entire distribution which lies below that particular score. Thus a 75th percentile score is higher than 75% of the scores of that distribution.
- Ratee --** The individual who is the subject of the efficiency rating or report.
- Rater --** The person who performs the assessment and makes out the rating form.
- Raw Score --** The actual score attained on a rating.

--- 2000

• 3744

10-10-68

[Faint bleed-through from reverse side]

10-11-68

... ..

*Jurnalul este în limba engleză

Insulting that he made a hole in the roof of his car? - 10/15/1963

[illegible]

DATE OF BIRTH: 1940

DOI: 10.1002/for

JAMES M. HARRIS

444-110273-2 4-22-76 10-10-76

[illegible]

- Reliability --** That quality of a measuring instrument which causes the device to produce the same result on successive measurements of the same entity.
- Reporting Senior --** The Navy's term for the Rater.
- Service Rating --** The name applied to efficiency rating in the field of public personnel administration.
- Service Report --** The name applied to the efficiency report in the field of public personnel administration.
- Skewed Distribution --** A distribution which has departed from the normal bell-shaped curve and has the major portion of its scores concentrated near one end of the scale.
- Split-Halves Reliability --** A kind of reliability determined by dividing the test or rating device into two equivalent parts and correlating the scores on the two parts. The resulting coefficient is known as the split-halves reliability coefficient.
- Standard Deviation --** A statistical concept; a measure of the variability of the distribution. It is determined by taking the square root of the average of the deviations (from the mean) of all the scores in the distribution.

Reliability -- That quality of a measuring instrument which enables the device to produce the same result on successive measurements of the same quantity.

Reporting error -- The error in the reported value.

Service rating -- The mean applied to efficiency rating in the field of public personnel administration.

Service rating -- The mean applied to the efficiency rating in the field of public personnel administration.

Thermal distribution -- A distribution which is composed of the normal bell-shaped curve and a constant value for the portion of its total concentration near one end of the curve.

Split-range variables -- A kind of bimodal distribution in which one part of the total concentration is near one end and the other part is near the other end of the range.

Unimodal distribution -- A distribution which is composed of a single bell-shaped curve.

Standard Score -- The standard score equivalent of a raw score is the deviation of that raw score from the mean of the scores, divided by the standard deviation of the distribution. The standard score is a ratio and as such is comparable to standard scores in other distributions. Therein lies its usefulness.

Statistical Significance -- A term applied to describe a difference between two measures. It refers to a convention observed by statisticians whereby, if the difference is three times as great as the standard deviation of that difference, the chance that on repeated measurements the difference will be found to occur in the opposite direction is so small as to be negligible. Under such conditions, the difference is said to be "statistically significant".

Subject -- The general term for the individual being subjected to study in an experiment.

Trait -- A consistency of behavior toward a given stimulus.

Validity -- The ability of a measuring device to measure that which it purports to measure.

Standard score -- The standard score equivalent of a raw score is the deviation of that raw score from the mean of the scores, divided by the standard deviation of the distribution. The standard score is a ratio and as such is dimensionless. Scores are usually given a label such as "standard score" or "z score".

Statistical significance -- A term applied in the sense of a difference between two measures. It refers to a condition observed in statistical work, if the difference is such that it is not due to chance. A test of statistical significance is used to determine the probability of the observed difference being due to chance. The null hypothesis is that there is no difference between the two measures. The alternative hypothesis is that there is a difference. The test statistic is calculated and compared to a critical value. If the test statistic is greater than the critical value, the null hypothesis is rejected and the difference is considered statistically significant.

Correlation -- The degree to which two variables are related. It is measured by the correlation coefficient, which ranges from -1 to +1. A positive correlation indicates that as one variable increases, the other variable also tends to increase. A negative correlation indicates that as one variable increases, the other variable tends to decrease. A correlation of 0 indicates no relationship.

Regression -- A statistical method used to estimate the relationship between a dependent variable and one or more independent variables. The regression line is the line of best fit through the data points.

ANOVA -- Analysis of Variance. A statistical method used to test the hypothesis that the means of three or more groups are equal. It is used to compare the means of two or more groups to see if there is a significant difference between them.

Validity, Face -- Validity which is awarded to a device by reason of the fact that it appears (on consideration of its makeup) to measure that which it purports to measure.

z Score -- A synonym for Standard Score.

Validity, there -- validity which is awarded to a device.
 reason of the fact that it is a device (an artificial-
 thing of the world) to measure that which is
 not a device.

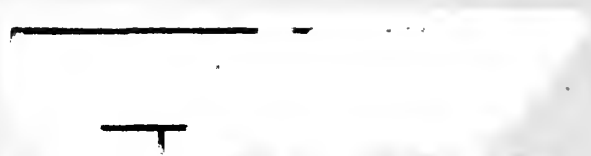
1. A device for measuring.

2. A device --

W.S.N.A.P.
89

9





OCT 19
JL 22 69

3749
14078

MY 16 57

7152

MY 12
DE 9 59

10050
10814

MR 13 63

13518

Thesis

12839

F54

Foley

Thes
F54

The adequacy of
officer fitness reports

MY 16 57

7152

MY 12 59

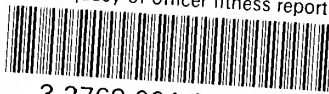
10050

DE 9 59

10814

thesF54

The adequacy of officer fitness reports.



3 2768 001 96825 8

DUDLEY KNOX LIBRARY